TowerPinkster
Architecture · Engineering · Interiors

ADDENDUM NO. 2

DATE OF ISSUANCE:	**March 21, 2023**
PROJECT:	**2023 Henryville Flooring Replacement** **Phase 2 & Cafeteria Expansion** **213 N. Ferguson. St.** **Henryville, IN 47126**
OWNER:	**Borden-Henryville School Corporation**
ARCHITECT'S PROJECT NO.:	**21-47.007**

SCOPE OF WORK

This Addendum includes changes to, or clarifications of, the original Bidding Documents and any previously issued addenda, and shall be included in the Bid. All of these Addendum items form a part of the Contract Documents. The Bidder shall acknowledge receipt of this Addendum in the appropriate space provided on the Bid Form. Failure to do so may result in disqualification of the Bid.

DOCUMENTS INCLUDED IN THIS ADDENDUM

This Addendum includes **26** pages of text and the following documents:

- Specifications: **0042 01, 01 23 00, 08 45 23, 09 67 16**
- Drawings: **C101, S101, S102, S201, S202, S301, A-501, A502, M100**

CHANGES TO SPECIFICATIONS

ADD-1 Item No. S-1 - Proposal Form: Part 1

Refer to Specification Section 00 42 01

Replace Section in its entirety with attached.

ADD-1 Item No. S-2 - Alternates

Refer to Specification Section 01 23 00.

Replace Section in its entirety with attached.

ADD-1 Item No. S-3 - Insulated Translucent Panels

Refer to Specification Section: 08 45 23

Add attached Section in its entirety.

ADD-1 Item No. S-4 - Decorative Epoxy Flake Floor Coating

Refer to Specification Section: 09 67 16

Add attached Section in its entirety.

ADD-1 Item No. S-5 - Control - Direct Digital

Refer to Specification Section: 25 04 00

Part 1, Item 1.7 revise Approved Manufacturer's to read as follows: "Trane".

CHANGES TO DRAWINGS

ADD-1 Item No. D-1 - Site Plan

Refer to Sheet(s): C101

Add attached Drawing in its entirety; drawing includes site plan and details.

ADD-1 Item No. D-2 - Accessibility Ramp Details

Refer to Sheet(s): S002

Delete Accessibility Ramp Details in their entirety; refer to attached Drawing C101 for replacement details.

ADD-1 Item No. D-3 - Structural Plans

Refer to Sheet(s): S101

Replace with attached revised Drawing in its entirety; revisions have been clouded for reference. Framing plan at existing kitchen to support new roof top unit has been added.

ADD-1 Item No. D-4 - Alternates 2A & 2B Structural Plans

Refer to Sheet(s): S102

Add attached Drawing in its entirety; drawing includes foundation plans and framing plans for added alternates.

ADD-1 Item No. D-5 - Foundation Details

Refer to Sheet(s): S201 and S202

Replace with attached revised Drawings in their entirety; revisions have been clouded for reference.

ADD-1 Item No. D-6 - Framing Details

Refer to Sheet(s): S301

Replace with attached revised Drawing in its entirety; revisions have been clouded for reference. Frame profiles have been added for Alternates 2A & 2B.

ADD-1 Item No. D-7 - Area "E" Reflected Ceiling Plan

Refer to Sheet[s]: A401

Revise Reflected Ceiling Keynote RC3 to read as follows:

Base bid: Existing suspended acoustical ceiling grid to remain. Add additional grid to modify grid from 2'x4' to 2'x2'. Replace all ceiling panels. See finish plan.

Alternate No. 3: Remove existing suspended acoustical ceiling in its entirety. Provide new 2'x'2 suspended acoustical system, type "AC1" on the Finish Schedule.

ADD-1 Item No. D-8 - Exterior Elevations

Refer to Sheet[s]: A501

Replace with attached revised Drawing in its entirety; revisions have been clouded for reference.

ADD-1 Item No. D-9 - Exterior Elevations

Refer to Sheet[s]: A502

Add attached Drawing in its entirety; drawing includes elevations for Alternates No. 1, 2A, and 2B.

ADD-1 Item No. D-10 - Exterior Elevations

Refer to Sheet[s]: M100

Replace with attached revised Drawing in its entirety; revisions have been clouded for reference.

ADD-1 Item No. D-11 - Renovation Plan - Mechanical

Refer to Sheet[s]: M300

Provide a humidity sensor adjacent to the thermostat for RTU-1. The sensor shall be used to control the unit's hot gas reheat to maintain maximum space humidity of 55%. Interlock the sensor to the DDC control system as required.

ADD-1 Item No. D-12 - Renovation Plan – Power/ Systems

Refer to Sheet[s]: E400

Provide (4) #8 conductors and a #10 ground in 1" conduit to a new 40A/3P breaker in Panel NHL2 to serve new HVAC unit RTU-01 in lieu of the 70A/3P circuit from Panel NFL2.

END OF ADDENDUM.

PROPOSAL FORM: PART I
Form 96 (Revised 2013)

CONTRACTOR'S BID FOR PUBLIC WORKS
Prescribed by the State Board of Accounts

CONTRACTORS BID FOR: 2023 Henryville Flooring Replacement Phase 2 and Cafeteria Expansion
Henryville High School
213 Ferguson Street, Henryville, IN 47126

PART I
(Part I to be completed for all bids)

Date (Month, Day, Year): _____

Governmental Unit (Owner): *BORDEN-HENRYVILLE SCHOOL CORPORATION*

County: _____

Bidder (Firm): _____

Address: _____

City, State, Zip: _____

Telephone No.: _____

Fax No.: _____

E-Mail Address: _____

Agent of Bidder: _____
(if applicable)

Pursuant to notices given, the undersigned offers to furnish labor and/or material necessary to complete the public works project of *BORDEN-HENRYVILLE SCHOOL CORPORATION* (Governmental Unit) in accordance with plans and specifications prepared by TowerPinkster and their consultants for the sum of:

BASE BID

Lump Sum _____ $ _____

The undersigned further agrees to furnish a bond or certified check with this bid for an amount specified in the notice of the letting. If alternative bids apply, the undersigned submits a proposal for each in accordance with the notice.

ADDENDA

Acknowledges receipt of:

Addendum No. _____ ( ) pages Dated _____

Addendum No. _____ ( ) pages Dated _____

Addendum No. _____ ( ) pages Dated _____

Addendum No. _____ ( ) pages Dated _____

ALTERNATES

The undersigned also proposes to furnish or to omit all labor and materials necessary to complete work as required by the Alternate Bids, as provided in the specifications as follows:

Alternate No. 1: *OUTDOOR SEATING CANOPY STRUCTURE* $ _____

Alternate No. 2A: *EXTERIOR ENTRY GATEWAYS* $ _____

Alternate No. 2B: *EXTERIOR ENTRY CANOPIES* $ _____

Alternate No. 3: *CAFETERIA CEILING REPLACEMENT* $ _____

ALLOWANCES

By initialing adjacent to amounts below, bidder acknowledges allowance amounts are included in the forgoing bid:

Contingency Allowance within the **Base Bid** per Section 01 21 16 **$100,000.00** initials _____

COMPLETION OF WORK

Undersigned guarantees, if awarded contract, to complete the work within _____( ) calendar days.

DISCRIMINATION

The Contractor and his subcontractors, if any, shall not discriminate against or intimidate any employee, or applicant for employment, to be employed in the performance of this contract, with respect to any matter directly or indirectly related to employment because of race, religion, color, sex, national origin or ancestry. Breach of this covenant may be regarded as a material breach of the Contract.

CERTIFICATION OF USE OF UNITED STATES STEEL PRODUCTS (*if applicable)*

I, the undersigned bidder or agent as a contractor on a public works project, understand my statutory obligation to use steel products made in the United States (I.C. 5-16-8-2). I hereby certify that I and all subcontractors employed by me for this project will use U.S. steel products on this project if awarded. I understand that violations hereunder may result in forfeiture of contractual payments.

NON-COLLUSION AFFIDAVIT

The undersigned bidder or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be bid by anyone at such letting nor to prevent any person from bidding nor to induce anyone to refrain form bidding, and that this bid is made without reference to any other bid and without any agreement, understanding or combination with any other person in reference to such bidding.

He further says that no person or persons, firms, or corporation has, have or will receive directly or indirectly, any rebate, fee, gift, commission or thing of value on account of such sale.

GENERAL CONTRACTOR CERTIFICATION

I hereby certify that we have obtained a complete set of construction documents, including all Drawings, Specifications and Addenda, and have reviewed the jobsite to sufficiently familiarize ourselves with the existing conditions.

Dated at _____ this _____ day of _____, 20___.

_____
(Name of Organization)

BY _____

_____
(Title of Person Signing)

OATH AND AFFIRMATION

I hereby affirm under the penalties for perjury that the facts and information contained in the foregoing bid for public works are true and correct.

Dated at _____ this _____ day of _____, 20___.

_____
(Name of Organization)

BY _____

_____
(Title of Person Signing)

ACKNOWLEDGEMENT

STATE OF _____

COUNTY OF _____

Before me, a Notary Public, personally appeared the above-named _____ and
(Name of Person Signing)
swore that the statements contained in the foregoing document are true and correct.

Subscribed and sworn to before me this _____ day of _____, 20 ___.

_____
Notary Public

My Commission Expires: _____

County of Residence: _____

ACCEPTANCE

The above bid is accepted this _____ day of _____, 20___,

subject to the following conditions: _____

_____.

Contracting Authority Members:

_____ _____

_____ _____

_____ _____

END OF SECTION 00 42 01

SECTION 01 23 00 - ALTERNATES

PART 1 - GENERAL

1.01 REQUIREMENTS INCLUDED

A. Section Includes:
   1. Procedures for exercising alternates.
   2. Identification and description of alternates.

B. All items, either indicated on the Drawings or specified in the Project Manual, not specifically indicated to be included in a specific alternate is to be included within the base bid scope of work.

1.02 RELATED REQUIREMENTS SPECIFIED ELSEWHERE

A. Bidding Requirements: Quotation of cost for each alternate as listed on Proposal Form.

B. Owner-Contractor Agreement: Alternates accepted by Owner for incorporation into the work.

C. Sections of Specifications identified by work of each alternate.

1.03 PROCEDURES

A. Alternates will be exercised at the option of Owner.

B. Coordinate related work and modify surrounding work as required to complete the Work, including changes under each Alternate, when acceptance as designated in Owner-Contractor Agreement.

C. All Alternates shall be bid.
Base Bid to be all work as shown on the Drawings and Specifications, except Alternates.

D. Owner reserves the right to accept or reject any and all Alternates as determined solely at the discretion of the Owner. Alternates may be accepted or rejected independently from one another, and in any order of priority or hierarchy as determined by the Owner.

1.04 SCHEDULE OF ALTERNATES

A. **ALTERNATE NO. 1: OUTDOOR SEATING CANOPY STRUCTURE**
   1. Give the amount to be ADDED to the Base Bid for the following:
      If a new canopy structure is constructed in accordance with the contract documents. This work includes a translucent roof system, canopy structural framing system, canopy lighting system, radiant outdoor heating system, and foundation system.

   2. Base Bid: Patio and masonry/ metal fencing system illustrated by the contract Documents. (No work for the canopy system shall be included in the Base Bid)

B. **ALTERNATE NO. 2A: EXTERIOR ENTRY GATEWAYS**
   1. Give the amount to be ADDED to the Base Bid for the following:
      If a new masonry and steel structure for exterior entry gateways are constructed in accordance with the contract documents at the High School and Elementary School entrances. This work includes masonry, gateway framing system, foundation system and signage.

   2. Base Bid: No work for the exterior entry gateways shall be included in the Base Bid. Masonry/ metal fencing system illustrated by the contract Documents for the Outdoor Seating area shall be included in the Base Bid at the Elementary entry.

C. **ALTERNATE NO. 2B: EXTERIOR ENTRY CANOPIES**

1. Give the amount to be ADDED to the Base Bid for the following:
   If new canopy structures are constructed in accordance with the contract documents. This work includes a translucent roof system, canopy structural framing system and foundation system.

2. Base Bid: No work for the canopy system shall be included in the Base Bid.

D. **ALTERNATE NO. 3: Cafeteria Ceiling Replacement**

1. Give the amount to be ADDED to the Base Bid for the following:
   Provide entirely new 2'x2' suspended acoustical ceiling system. Ceiling panel replacement is included in Base Bid.

2. Base Bid: Existing suspended acoustical ceiling system to remain. Add additional t's to modify 2'x4' ceiling grid to 2'x'2. Provide new ceiling panels throughout.

END OF SECTION 01 23 00

SECTION 08 45 23 - INSULATED TRANSLUCENT PANELS

PART 1 - GENERAL

1.01 DESCRIPTION

A. Work included: Supply all material (and labor) required to deliver (and install) the factory prefabricated structural insulated translucent sandwich panels as a canopy roofing system over a structural steel support system provided by Division 05.

B. Related Work Specified Elsewhere:
Structural Steel – Section 05 10 00

1.02 SUBMITTALS

A. Submit manufacturer's product data. Include construction details, material descriptions, profiles and finishes of components.

B. Submit shop drawings. Include plans, elevations and attachment details.

C. Submit manufacturer's color charts showing the full range of colors available.
1. When requested, submit samples for each exposed finish required, in same thickness and material indicated for the work and in size indicated below. If finishes involve normal color variations, include sample sets consisting of two or more units showing the full range of variations expected. Sandwich panels: 14"x28" units

D. Submit product reports from a qualified independent testing agency indicating each type and class of panel system complies with the project performance requirements, based on comprehensive testing of current products. Previously completed reports will be acceptable if for current manufacturer and indicative of products used on this project.

Reports required (if applicable) are:
a. International Building Code Evaluation Report (AC 177)
b. Flame Spread and Smoke Developed (UL 723) – Submit UL Card
c. Burn Extent (ASTM D 635)
d. Color Difference (ASTM D 2244)
e. Impact Strength (UL 972)
f. Bond Tensile Strength (ASTM C 297 after aging by ASTM D 1037)
g. Bond Shear Strength (ASTM D 1002)
h. Beam Bending Strength (ASTM E 72)
i. Insulation U-Factor (NFRC 100 or ASTM C-236)
j. 1200°F Fire Resistance (SWRI)
k. Fall Through Resistance (ASTM E 661)
l. Class A Roof Covering Burning Brand (ASTM E 108)

1.03 QUALITY ASSURANCE

A. Manufacturer's Qualifications:
1. Material and products shall be manufactured by a company continuously and regularly employed in the manufacture of specified materials for a period of at least ten consecutive years and which can show evidence of those materials being satisfactorily used on at least six projects of similar size, scope and location. At least three of the projects shall have been in successful use for ten years or longer.

2. Panel system must be listed by an ANSI accredited Evaluation Service, which requires quality control inspections and fire, structural and water infiltration testing of sandwich panel systems by an accredited agency.
3. Quality control inspections shall be conducted at least once each year and shall include manufacturing facilities, sandwich panel components and production sandwich panels for conformance with AC177 “Translucent Fiberglass Reinforced Plastic (FRP) Faced Panel Wall, Roof and Skylight Systems” as issued by the ICC-ES.

B. Installer’s Qualifications: Installation shall be by an experienced installer, which has been in the business of installing specified panel systems for at least five consecutive years and can show evidence of satisfactory completion of projects of similar size, scope and type.

1.04 PERFORMANCE REQUIREMENTS

A. Provide translucent panels capable of handling the following loads:
1. Roof Live Load, on horizontal projected surface, minimum: 20 PSF
2. Roof Snow Load, on horizontal projected surface, minimum: 20 PSF

B. Deflection Limits: L/180 of clear span.

1.05 PRODUCT HANDLING

A. Store insulated translucent panels on the long edge, several inches above the ground, blocked and under cover to prevent warping in accordance with manufacturer's storage and handling instructions.

1.06 WARRANTY

A. Submit manufacturer’s standard one-year material and workmanship warranty.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

A. Subject to compliance with project requirements, manufacturer's offering products which may be incorporated in the Work include the following:
1. Kalwall Corporation.
(800) 258-9777, (603) 627-7905 fax.
2. Skywall Translucent Systems.
(502) 228-5828, (502) 228-1881 fax.
3. Major Industries.
(715) 842-4616, (715) 848-3336 fax.

2.02 PANEL COMPONENTS

A. Face Sheets:
1. Translucent faces: Manufactured from glass fiber reinforced thermoset resins, formulated specifically for architectural use.
a. Thermoplastic (e.g. polycarbonate, acrylic) faces are not acceptable.
b. Face sheets shall not deform, deflect, or drip when subjected to fire or flame.
2. Interior face sheets:
a. Flame spread: Underwriters Laboratories (UL) listed, which requires periodic unannounced retesting, with flame spread rating no greater than 10 and smoke developed no greater than 350-400 when tested in accordance with UL 723.
b. Burn extent by ASTM D 635 shall be no greater than 1”.

3. Exterior face sheets:
   a. Color stability: Full thickness of the exterior face sheet shall not change color more than 3 CIE Units DELTA E by ASTM D 2244 after 3 years outdoor South Florida weathering at 5° facing south, determined by the average of at least three white samples with and without a protective film or coating to ensure long-term color stability. Color stability shall be unaffected by abrasion or scratching.
   b. Strength: Exterior face sheet shall be uniform in strength, impenetrable by handheld pencil and repel an impact minimum of 70 ft. lbs. without fracture or tear when impacted by a 3-1/4" diameter, 5 lb. free-falling ball per UL 972.
   c. Erosion Protection: Integral, embedded-glass erosion barrier.
4. Appearance:
   a. Exterior face sheet: Smooth, .070" thick and crystal in color.
   b. Interior face sheet: Smooth, .045" thick and white in color.
   c. Face sheets shall not vary more than ± 10% in thickness and be uniform in color.

B. Grid Core:
1. Aluminum I-beam grid core shall be of 6063-T6 or 6005-T5 alloy and temper with provisions for mechanical interlocking of muntin-mullion and perimeter. Width of I-beam shall be no less than 7/16".

C. Laminate Adhesive:
1. Heat and pressure resin type adhesive engineered for structural sandwich panel use, with minimum 25-years field use. Adhesive shall pass testing requirements specified by the International Code Council "Acceptance Criteria for Sandwich Panel Adhesives".
2. Minimum tensile strength of 750 PSI when the panel assembly is tested by ASTM C 297 after two exposures to six cycles each of the aging conditions prescribed by ASTM D 1037.
3. Minimum shear strength of the panel adhesive by ASTM D 1002 after exposure to four separate conditions:
   a. 50% Relative Humidity at 68° F: 540 PSI
   b. 182° F: 100 PSI
   c. Accelerated Aging by ASTM D 1037 at room temperature: 800 PSI
   d. Accelerated Aging by ASTM D 1037 at 182° F: 250 PSI

2.03 PANEL CONSTRUCTION

A. Provide sandwich panels of flat fiberglass reinforced translucent face sheets laminated to a grid core of mechanically interlocking I-beams. The adhesive bonding line shall be straight, cover the entire width of the I-beam and have a neat, sharp edge.
1. Thickness: 2 ¾"
2. Light transmission: 37 %
3. Solar heat gain coefficient: .44
4. Panel U-factor: .53U
5. Grid pattern: Nominal size 8"x20" pattern shoji

B. Standard panels shall deflect no more than 1.9" at 30 PSF in 10'-0" span without a supporting frame by ASTM E 72.

C. Standard panels shall withstand 1200° F fire for minimum one hour without collapse or exterior flaming.

D. Canopy Roof Panels:
1. Canopy roof panels shall pass Class A Roof Burning Brand Test by ASTM E 108.

E. Canopy Roof Panels shall meet the fall through requirements of OSHA 1910.23 as demonstrated by testing in accordance with ASTM E 661, thereby not requiring supplemental screens or railings.

2.04 ALUMINUM CLAMPTITE INSTALLATION SYSTEM

A. Extruded aluminum 6063-T6 and 6063-T5 alloy and temper clamp-tite screw type closure system.

B. Sealing tape: Manufacturer's standard, pre-applied to aluminum clamptite installation system at the factory under controlled conditions.

C. Fasteners: 300 series stainless steel screws for aluminum clamptite installation system.

D. Finish: Manufacturer's factory applied finish, which meets the performance requirements of AAMA 2604. Color to be chosen from manufacturer standards.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Installer shall examine structural steel support system and installation conditions.

B. Do not proceed with panel installation until unsatisfactory conditions have been corrected by the general contractor.

3.02 PREPARATION

A. Metal Protection:
1. The contractor shall prepare substrate including isolating dissimilar materials from aluminum, which may cause damage by electrolysis,
2. Where aluminum will contact dissimilar metals, protect against galvanic action by painting contact surfaces with primer or by applying sealant or tape recommended by manufacturer for this purpose.

3.03 INSTALLATION

A. Install the insulated translucent panels in accordance with the manufacturer's installation recommendations and approved shop drawings.

B. After other trades have completed work on adjacent material, carefully inspect translucent panel installation and adjust as necessary to ensure proper installation.

3.04 CLEANING

A. Clean the insulated translucent panels immediately after installation.

B. Refer to manufacturer's written recommendations.

3.05 PROTECTION

A. Protect from damage until time of final inspection

SUBMITTAL CHECKLIST

1. Samples.
2. Manufacturer's Literature.
3. Shop Drawings.

END OF SECTION 08 45 23

SECTION 09 67 16 – DECORATIVE EPOXY FLAKE FLOOR COATING

PART 1 - GENERAL

1.01 WORK INCLUDED

A. Resinous flooring: Abrasion, impact and chemical resistant, decorative aggregate-filled epoxy-resin-based monolithic floor surfacing designed to produce a seamless floor.

B. Extent of decorative epoxy flake floor coatings are indicated on Drawings and specified herein.

1.02 QUALITY ASSURANCE

A. Installer: A firm familiar with work with not less than three years of experience in installing products similar to those required for this project.

B. Deliver materials to project site in original packages or containers clearly labeled to identify manufacturer, brand name, quality or grade and fire hazard classification.

C. Store materials in original undamaged packages or containers. Maintain temperature in storage area above 40°F. Store per manufacturer's recommendations.

D. Illuminate areas of installation using building's permanent lighting system; temporary lighting alone will not be acceptable.

1.03 SUBMITTALS

A. Material Samples:
1. If selection is not specified, provide full entire range of samples for Architect's selection
2. If selection is specified, provide specified sample.
3. Provide sample to match that as specified, including colors, decorative flakes incorporated, texture, slip-resistant additive, and all coats of system complete.

B. Manufacturer's Literature:
1. Manufacturer's literature, installation instructions, and maintenance data.
2. Materials Safety and Data Sheets.

C. Mock-Up Panel:
1. Construct on site, sample panels, 4 foot x 4 foot minimum in size.
2. Concrete shall be cured at least 28 days prior to application of the stain, so multiple panel slabs should be cast at the same time to allow for multiple samples opportunities in timeframe required.
3. Panel to be a concrete slab apart from any concrete areas associated within the project.
4. Show proposed color, range, texture, and workmanship of floor coating application, including sealer, to demonstrate the finished product.
5. Do not proceed with floor coating work until sample panel has been approved by the Architect.
6. If deemed unacceptable by the Architect, create another panel to correct items of unacceptability. Continue process until and approved panel has been achieved.
7. Once an approved panel has been achieved, use panel as standard of comparison for all stain work.
8. Do not destroy or remove panel until all stain work is complete and accepted.

PART 2 - PRODUCTS

2.01 MATERIAL

A. Basis of Specification:

1. “Sherwin-Williams/General Polymers”; Resuflor Deco Flake BC Coating System.

   Primer: "Sherwin-Williams", Resuprime “3579”, Epoxy Primer and Binder Parts A & B
   Color to be selected by Architect.
   Rate of Application: 200-300 SF/ gallon.

   Base Coat: "Sherwin-Williams", “3746” Resuflor High Performance Epoxy base coat.
   * Blastrac pattern shall be completely hidden by second coat. Additional coats as required by Architect to achieve desired and intended result to hide below.
   Rate of Application: 200-300 SF/ gallon.

   Broadcast: Decorative Flakes 6750 or 6755 to excess at 100-200 lbs.per 1,000 square feet.
   * Apply decorative broadcast paint flake over second coat while still tacky and not completely cured.

   Grout Coat: "Sherwin-Williams", “3746” Resuflor High Performance Epoxy grout coat.
   Rate of Application: 160-250 SF/ gallon.

   Seal Coat: “Sherwin Williams”, “4686” Resutile seal coat.
   Rate of Application: 250-400 SF/ gallon.

B. Color:
   1. Coating and decorative flake colors as selected by Architect from manufacturer’s entire selection.
   2. Color selection is indicated on the Drawings.

C. Finish:
   1. High-Gloss finish.
   2. Withstand heavy industrial traffic, abrasion, and general chemical attack.

D. Additives, Primers and Sealers:
   1. None permitted.
   2. Concrete Kure-N-Seal product not permitted in areas to receive concrete floor coating.
   3. The use of Quick-Kick Epoxy Accelerator is not permitted in areas to receive concrete floor coating.

PART 3 - EXECUTION

3.01 PREPARATION

A. Ensure floor surfaces are clean, dry, sound, and fully cured. Remove all form release agents, curing compounds, salts, efflorescence, laitance, oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

B. Consult manufacturer's recommendation for substrate prep and cleaning.

C. Test floor for vapor drive in accordance with ASTM D 4263 and per manufacturer’s recommendations.

D. Blastrac entire floor surface to receive specified floor coatings. Required finished profile of CSP1-3 prior to any coating taking place.

E. Repair concrete imperfections, apply crack fillers, and install joint sealants as required and as compatible with floor coating products.

F. Clean all surfaces of oil, grease, or other bond-inhibiting materials per manufacturer’s recommendations.

G. Surfaces must be clean, dry, sound and offer sufficient profile to achieve adequate adhesion. Remove all form release agents, curing compounds, salts, efflorescence, laitance, and other foreign matter by sandblasting, shotblasting, mechanical scarification.
Perform this work at no additional cost or change in time. Rinse thoroughly to achieve a final pH as specified by the manufacturer and allow to dry thoroughly prior to coating.

3.02 INSTALLATION

A. Install according to manufacturer's instructions and recommendations.

B. Apply a 5' x 5' test area of each specified coating system to ensure proper adhesion and appearance.

C. Apply first finish coat at rate specified above. Apply second finish coat at rate specified above when first coat is dry, no sooner than 12 hours after completing first coat, but no more than 48 hours.

D. Utilize spike shoes to apply decorative broadcast flakes over concrete coating. Apply flakes as double broadcast to achieve complete coverage of Decorative Epoxy Flake Floor Coating.

E. Remain off of floor surface until completely dried.

3.03 ADJUST AND CLEAN

A. Assure finish is uniform and consistent.

B. Replace removed plates and covers on floors.

C. Remove surplus materials, rubbish, and debris resulting from installation upon completion of work, and leave areas of installation in neat, clean condition.

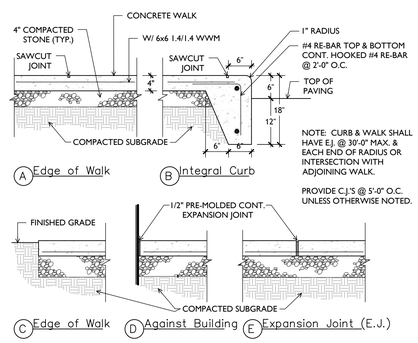
D. Clean surface of all debris. Sweep and mop to a smooth, clean appearance.

E. Improper installation or improper use of products will result in the final floor coating to have an undesirable result. If the final surfacing is deemed unacceptable by the Architect, the entire system is to be removed completely, and the substrate properly re-prepped. The system is to be reapplied to an acceptable final result. All costs associated with this procedure are to be at the expense of the contractor with no additional costs to the Owner. The level of acceptability is at the sole discretion of the Architect.

SUBMITTAL CHECK LIST

1. Material Samples.
2. Manufacturer's Literature.
3. Material Safety and Data Sheets.
4. Mock-up panel.
5. Color charts.

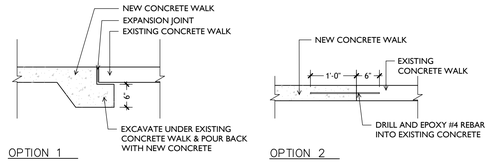
END OF SECTION 09 67 16



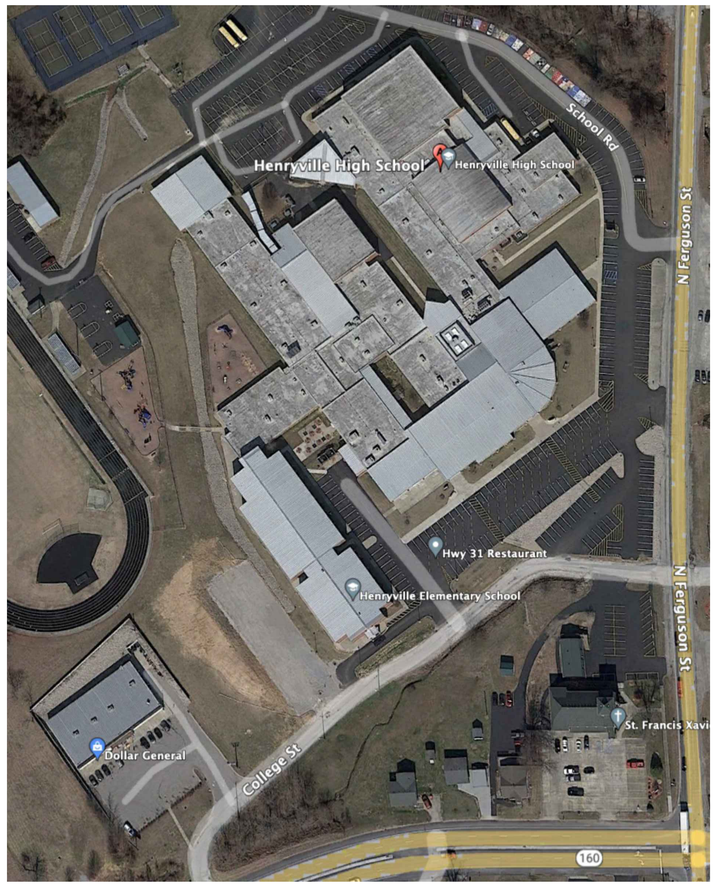
NOTE: CURB & WALK SHALL HAVE E.J. @ 30'-0" MAX. & EACH END OF RADIUS OR INTERSECTION WITH ADJOINING WALK.

PROVIDE C.J.'S @ 5'-0" O.C. UNLESS OTHERWISE NOTED.

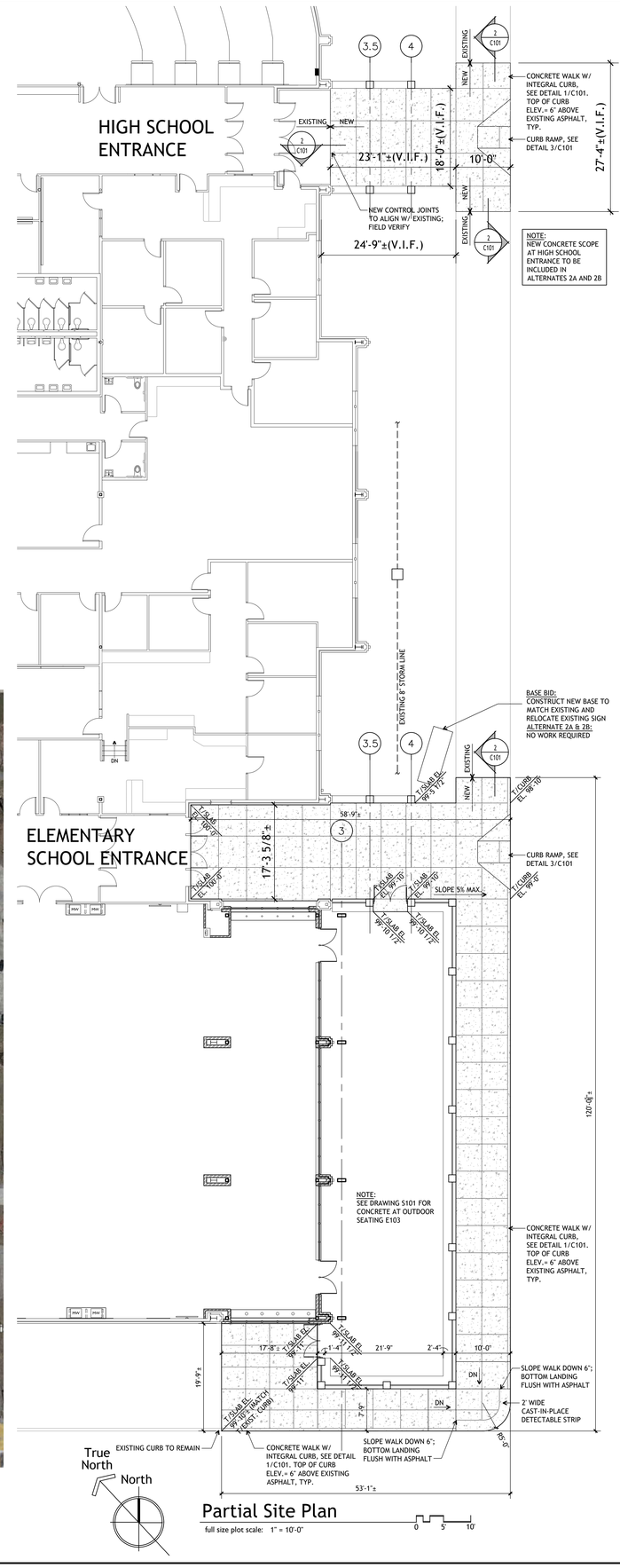
1
C101
Concrete Walk Detail
NOT TO SCALE



2
C101
Concrete Walk Details (Joint at Exist.
NOT TO SCALE



4
C101
Overall Site Aerial View
NOT TO SCALE



Partial Site Plan
full size plot scale: 1" = 10'-0"

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ARCHITECTURE • ENGINEERING • INTERIORS

242 East Kalamazoo Avenue, Suite 100
Kalamazoo, Michigan 49007-5828
269.343.6133 PHONE 269.343.6633 FAX

630 Walnut St.
Jeffersonville, IN 47130
812.282.9554 PHONE

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HAL E. KOVERT
No. AR00033675

ISSUED FOR	DATE
Bidding Only Addendum No. 2 >>	Issue Date 03/21/2023

Revisions
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PROJECT TITLE
HENRYVILLE HIGH SCHOOL

2023 HENRYVILLE
FLOORING REPLACEMENT
PHASE 2 & CAFETERIA
EXPANSION

OWNER
BORDEN - HENRYVILLE
SCHOOL CORPORATION

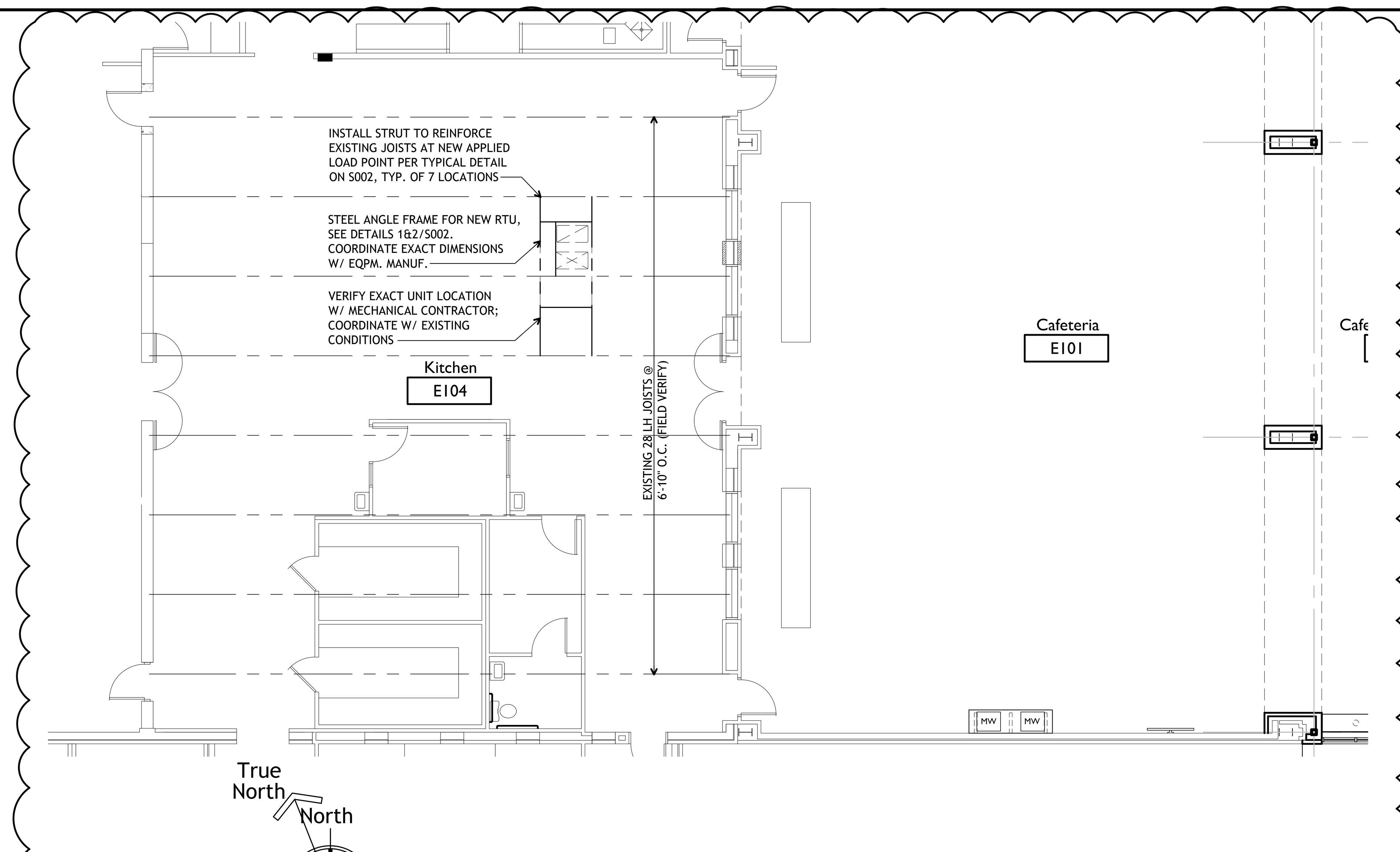
213 FERGUSON STREET
HENRYVILLE, INDIANA 47126

Drawn HG/JK
Checked By HK

DATE
03/21/2023

SHEET TITLE
SITE PLAN
& DETAILS

SHEET NUMBER
C101
202147.007

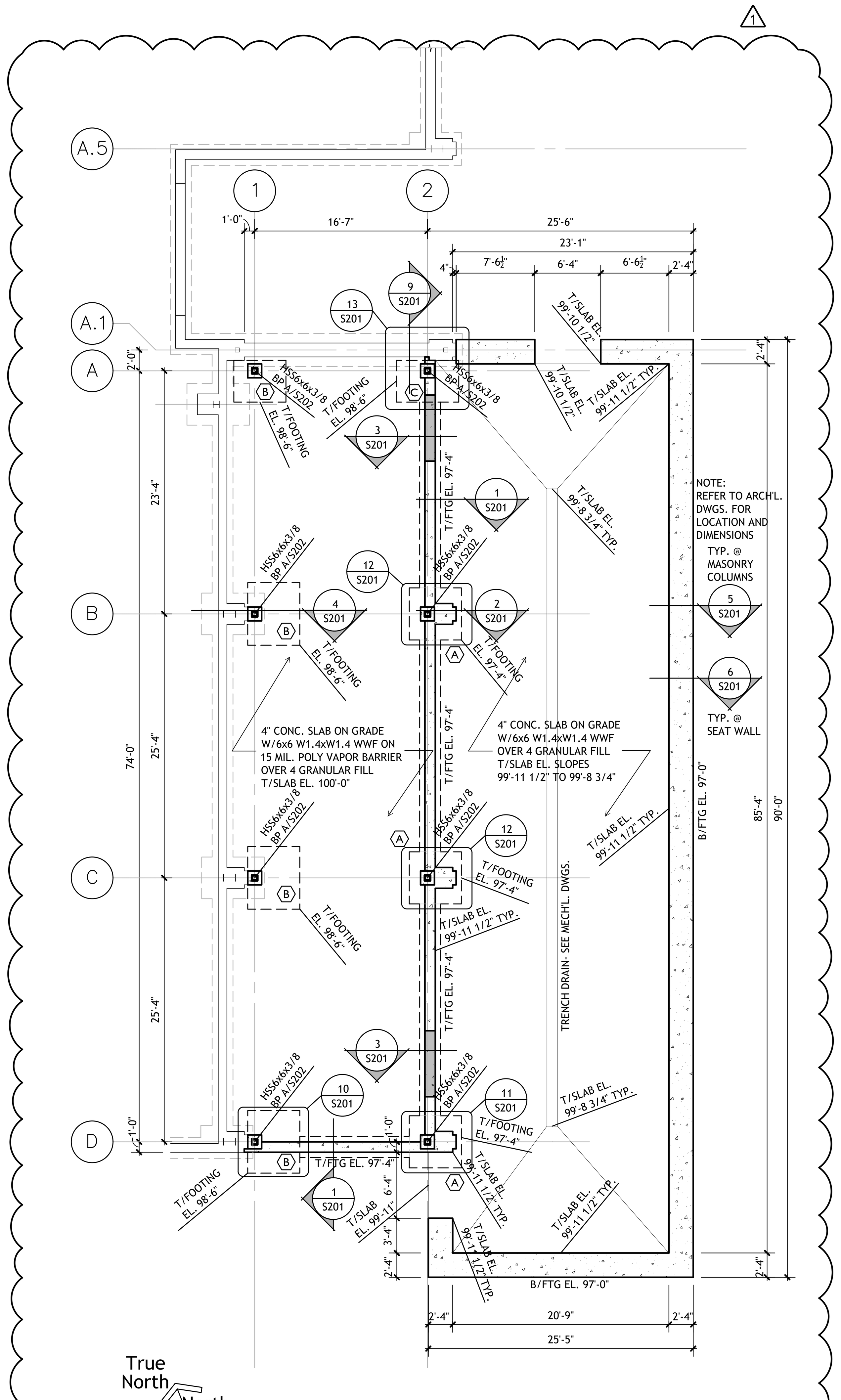


Kitchen Framing Plan

full size plot scale: 1/8" = 1'-0"

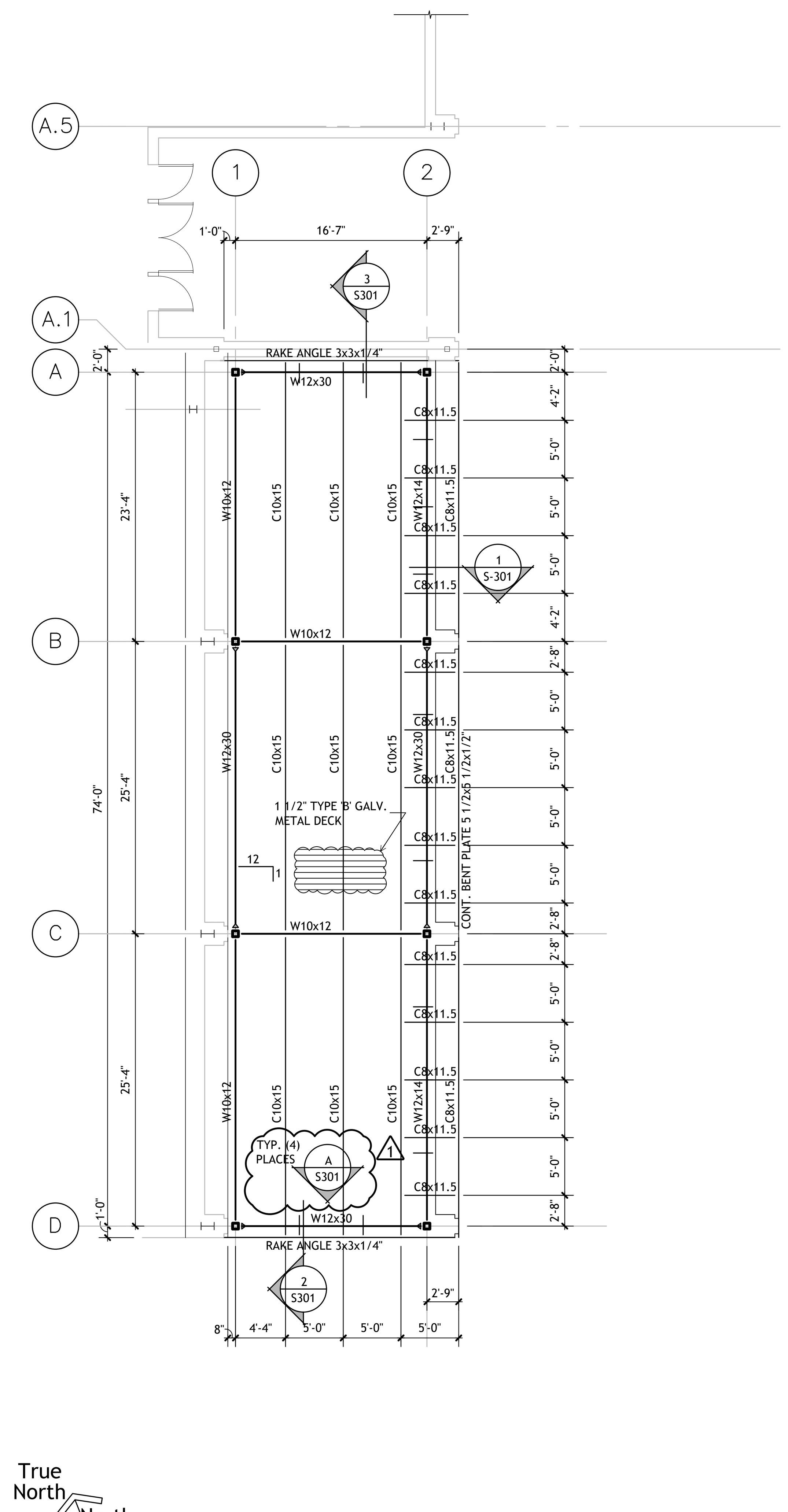
Footing Schedule

IDEN	SIZE	REINFORCING
A	5'-0"x5'-0"x1'-6"	(8)#5 E.W. TOP & BOTT.
B	6'-0"x5'-0"x2'-2"	(6)#5 L.W. TOP & BOTT. (8)#5 S.W. TOP & BOTT.
C	6'-0"x4'-0"x2'-2"	(6)#6 L.W. TOP & BOTT. (8)#6 S.W. TOP & BOTT.
D	7'-0"x5'-6"x1'-6"	(10)#6 E.W. TOP & BOTT.
E	12'-6"x5'-0"x1'-6"	(10)#6 E.W. TOP & BOTT.
F	4'-0"x4'-0"x1'-0"	(5)#6 E.W. BOTT.



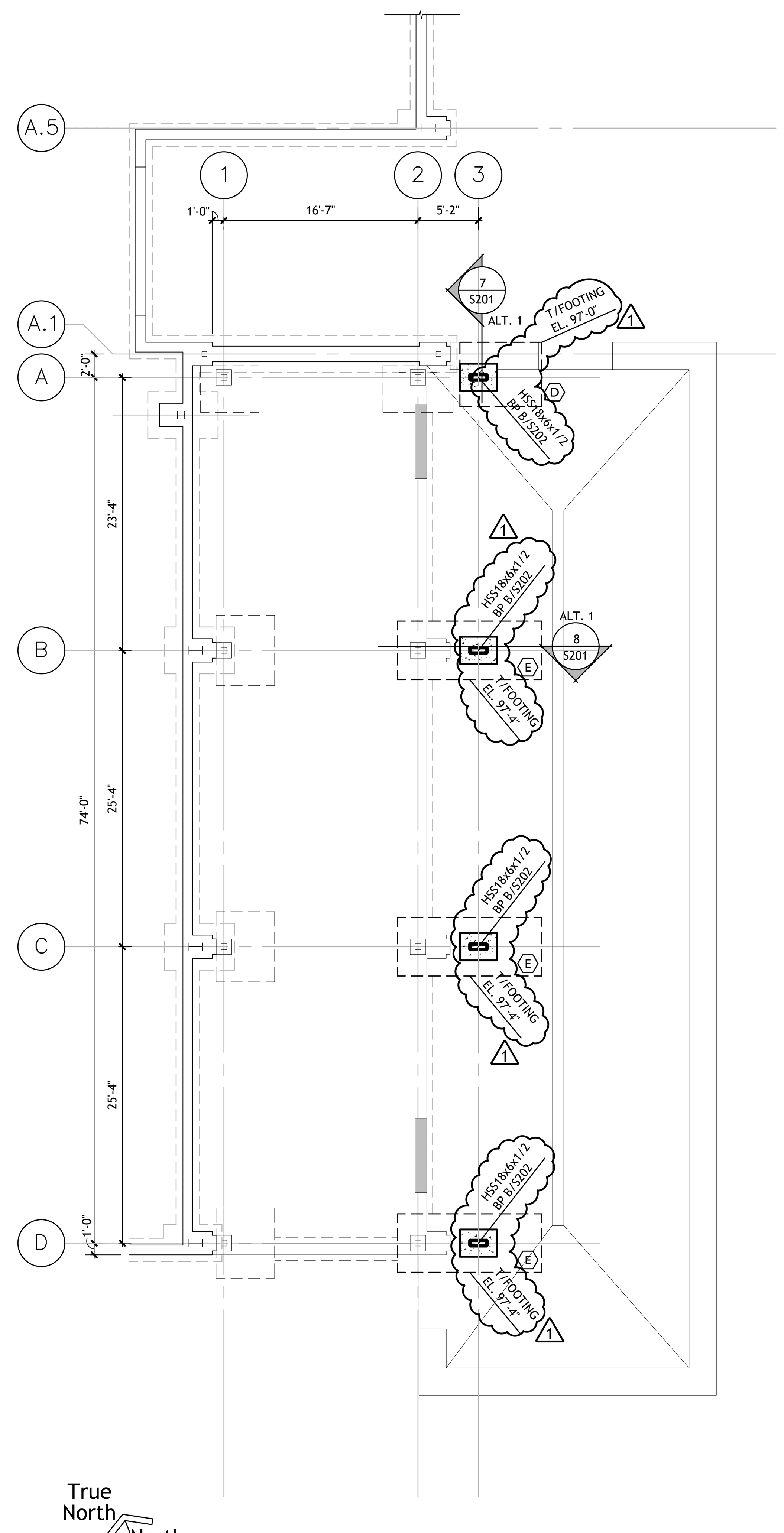
Base Bid - Foundation Plan

full size plot scale: 1/8" = 1'-0"



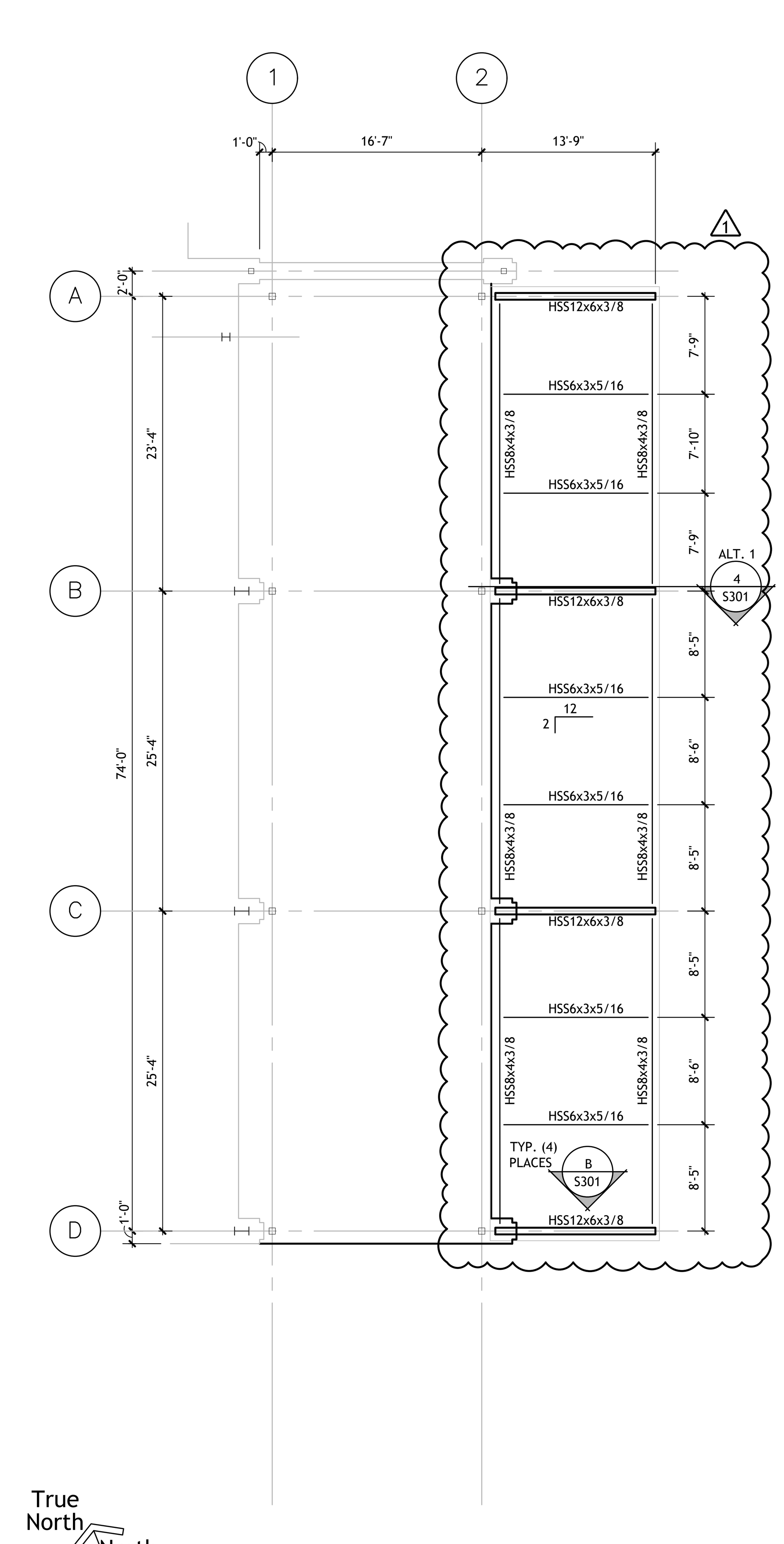
Base Bid - Roof Framing Plan

full size plot scale: 1/8" = 1'-0"



Alternate 1 - Foundation Plan-

full size plot scale: 1/8" = 1'-0"



Alternate 1 - Canopy Framing Plan

full size plot scale: 1/8" = 1'-0"

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630 Walnut St.
Jeffersonville, IN 47130
812.282.9554 PHONE

242 East Kalamazoo Avenue, Suite 100
Kalamazoo, Michigan 49007-5828
269.343.6133 PHONE 269.343.6633 FAX
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HAL E. KOVERT ★ REGISTERED NO. AR00033675 STATE OF INDIANA ARCHITECT ★

ISSUED FOR	DATE
Bidding Only > >>	Issue Date 02/22/2023

Revisions
1 Addendum No. 2 3-21-2023
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PROJECT TITLE
HENRYVILLE HIGH SCHOOL
2023 HENRYVILLE FLOORING REPLACEMENT PHASE 2 & CAFETERIA EXPANSION

OWNER
BORDEN - HENRYVILLE SCHOOL CORPORATION
213 FERGUSON STREET
HENRYVILLE, INDIANA 47126

Drawn JK
Checked By HK

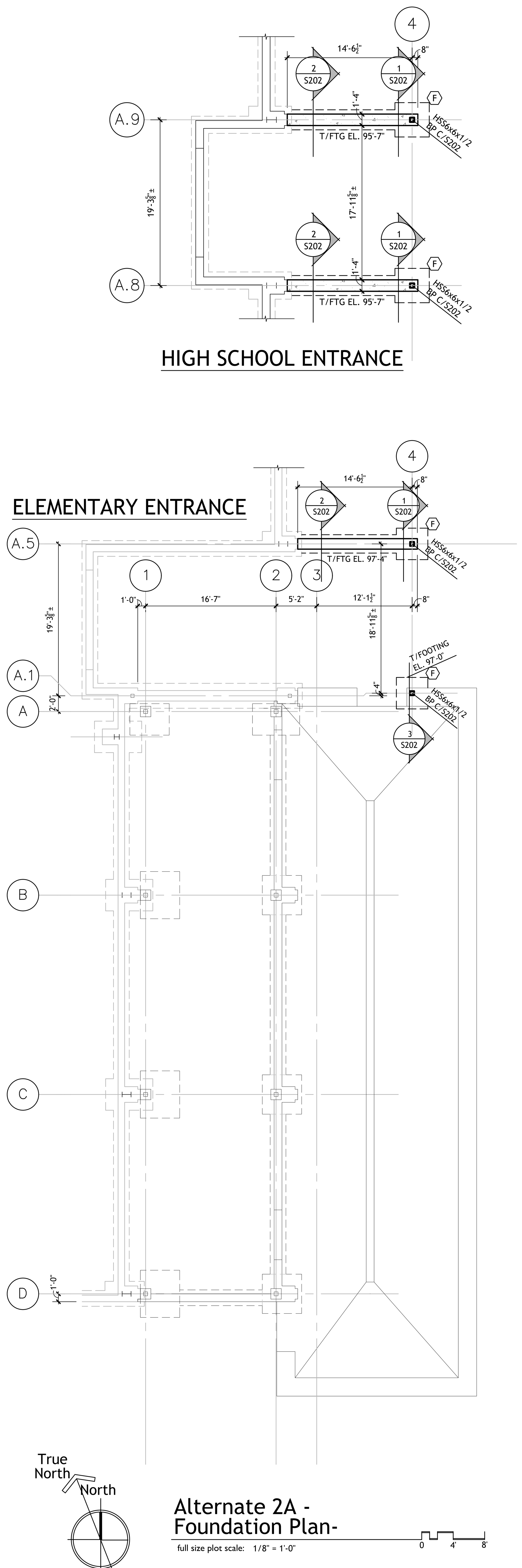
DATE
02/22/2023

SHEET TITLE
STRUCTURAL PLANS

SHEET NUMBER
S101
202147.007

HIGH SCHOOL ENTRANCE

ELEMENTARY ENTRANCE

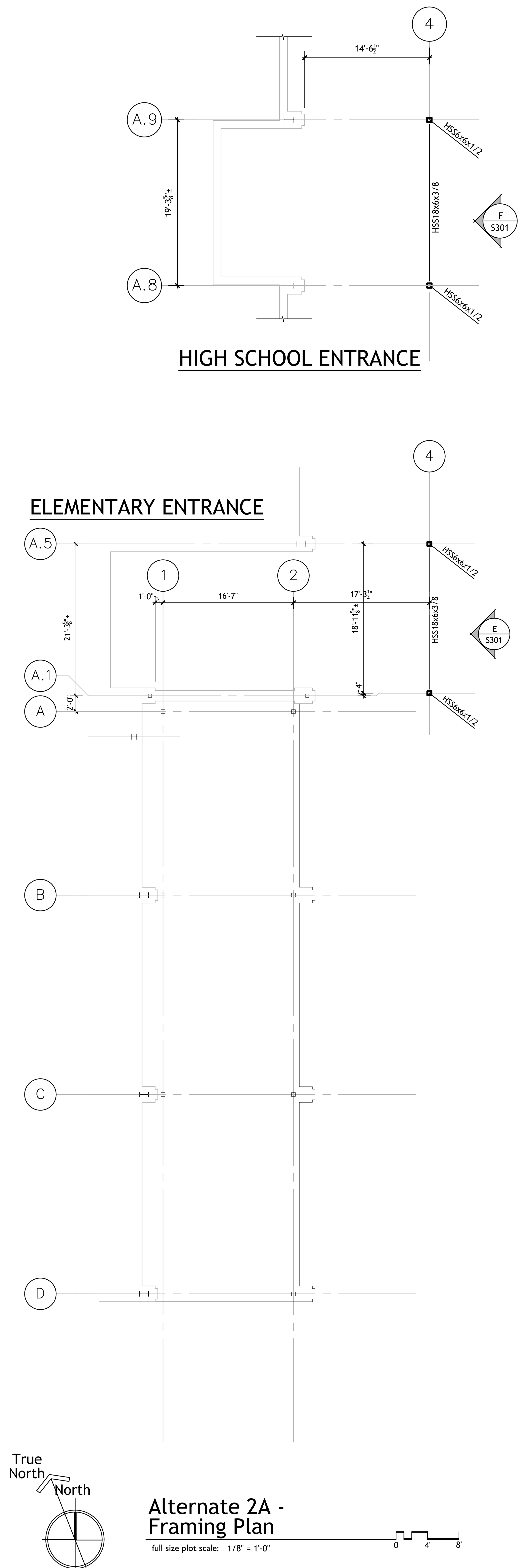


Alternate 2A - Foundation Plan-

full size plot scale: 1/8" = 1'-0"

HIGH SCHOOL ENTRANCE

ELEMENTARY ENTRANCE

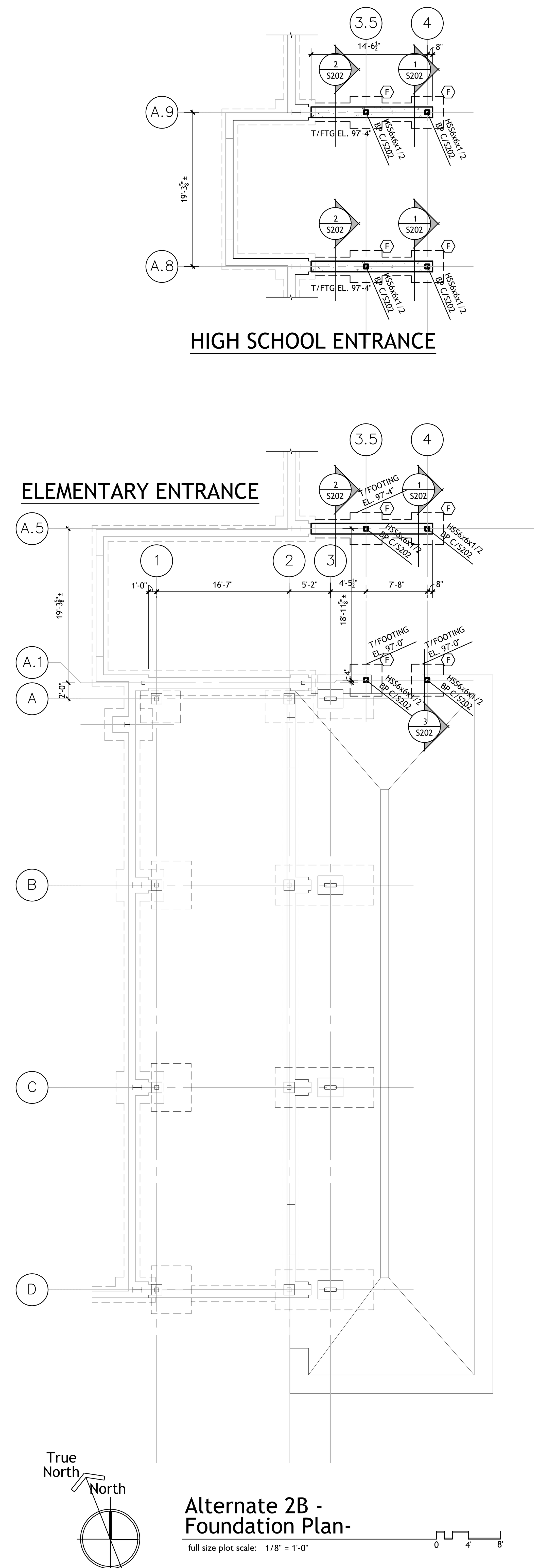


Alternate 2A - Framing Plan

full size plot scale: 1/8" = 1'-0"

HIGH SCHOOL ENTRANCE

ELEMENTARY ENTRANCE

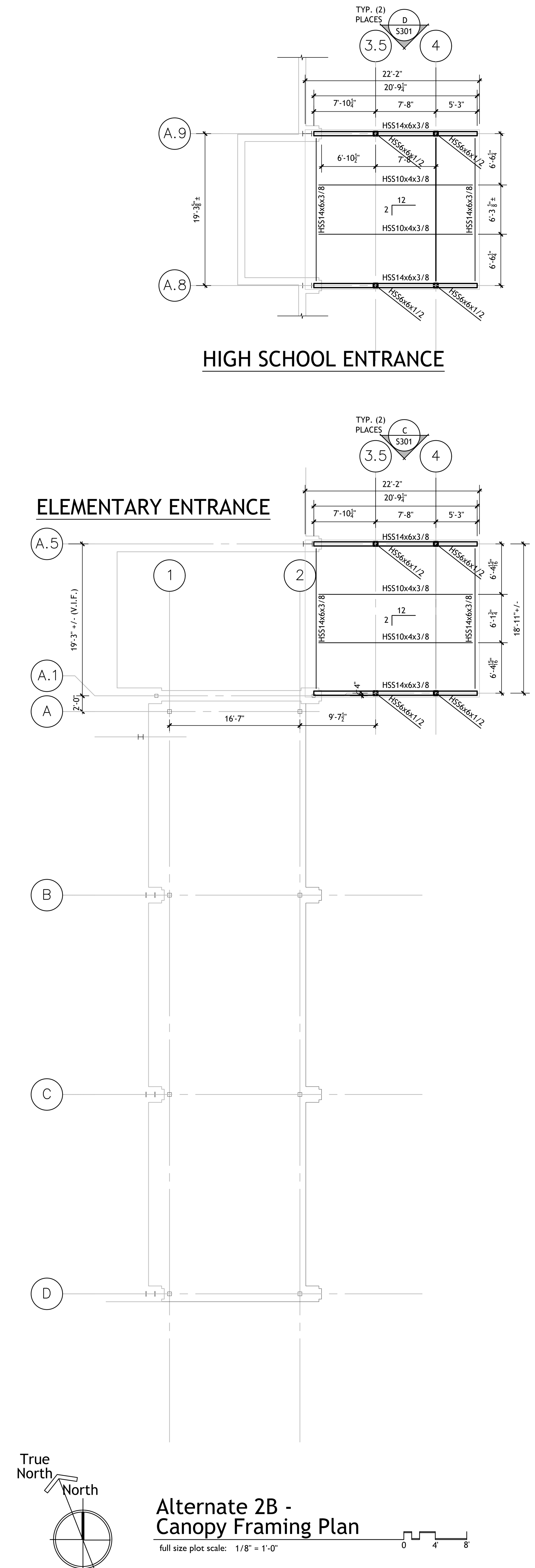


Alternate 2B - Foundation Plan-

full size plot scale: 1/8" = 1'-0"

HIGH SCHOOL ENTRANCE

ELEMENTARY ENTRANCE



Alternate 2B - Canopy Framing Plan

full size plot scale: 1/8" = 1'-0"

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Kalamazoo, Michigan 49007-3828
630 Walnut St.
Jeffersonville, IN 47130

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PROJECT TITLE
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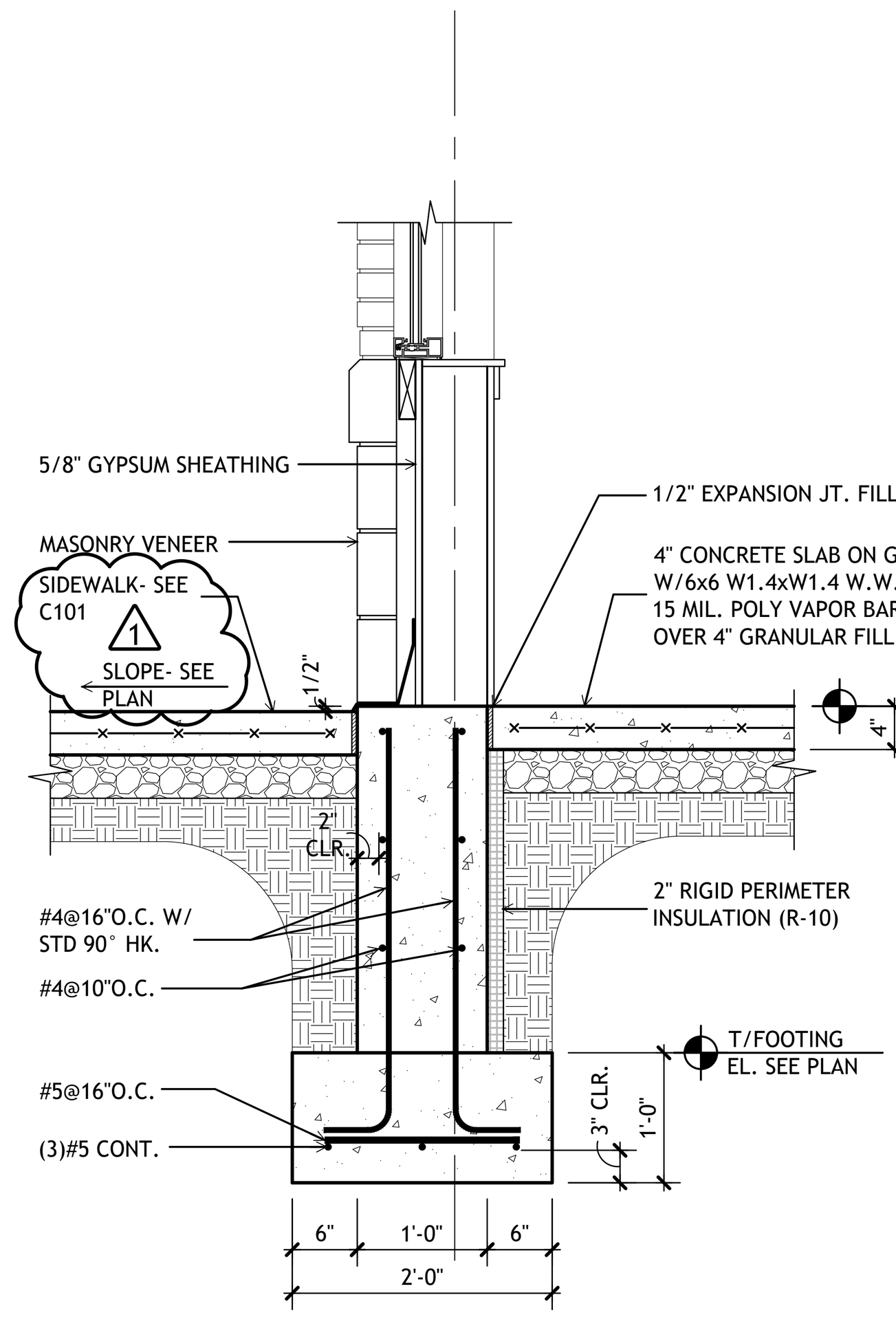
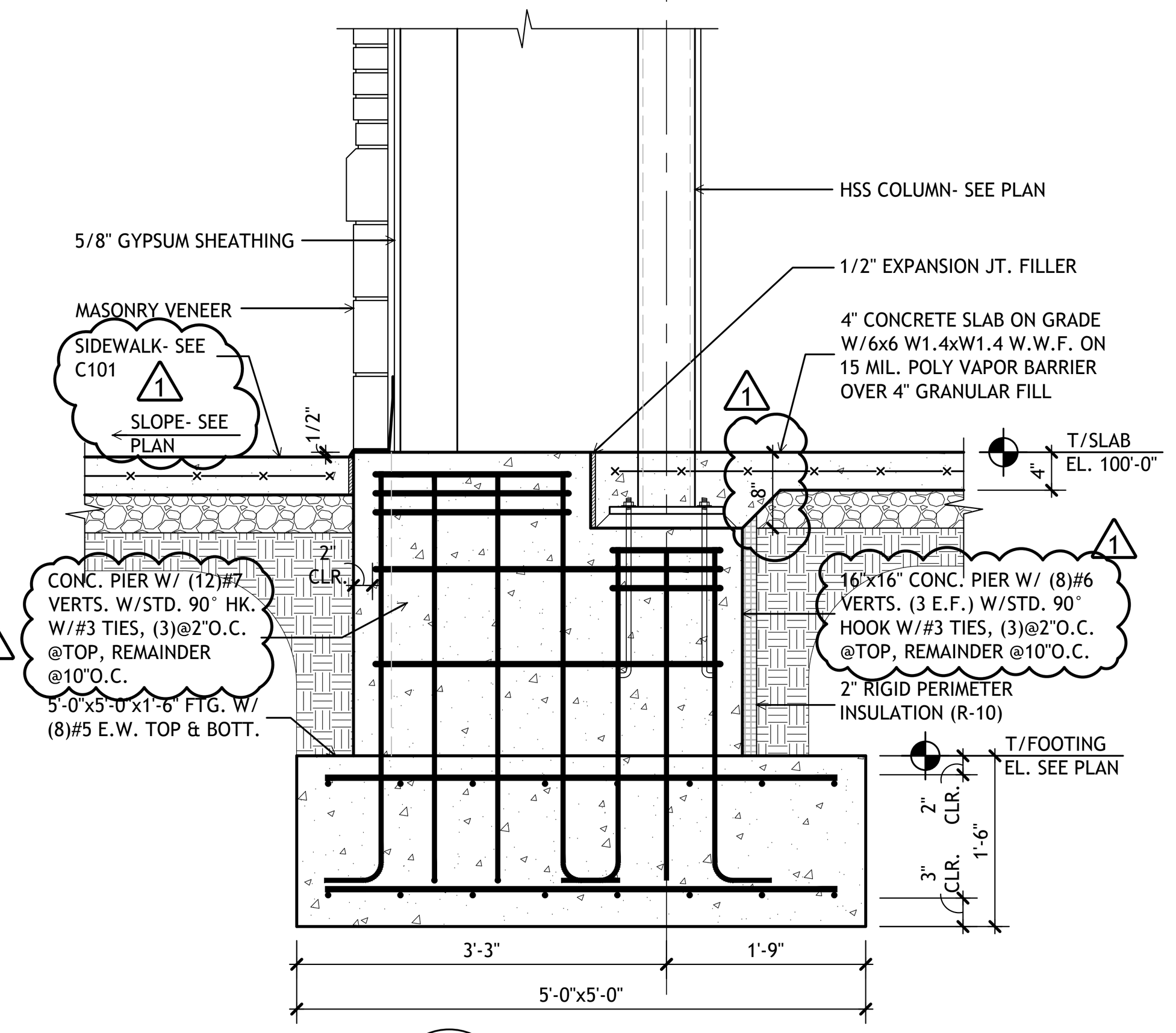
DATE
03/21/2023

SHEET TITLE
STRUCTURAL PLANS

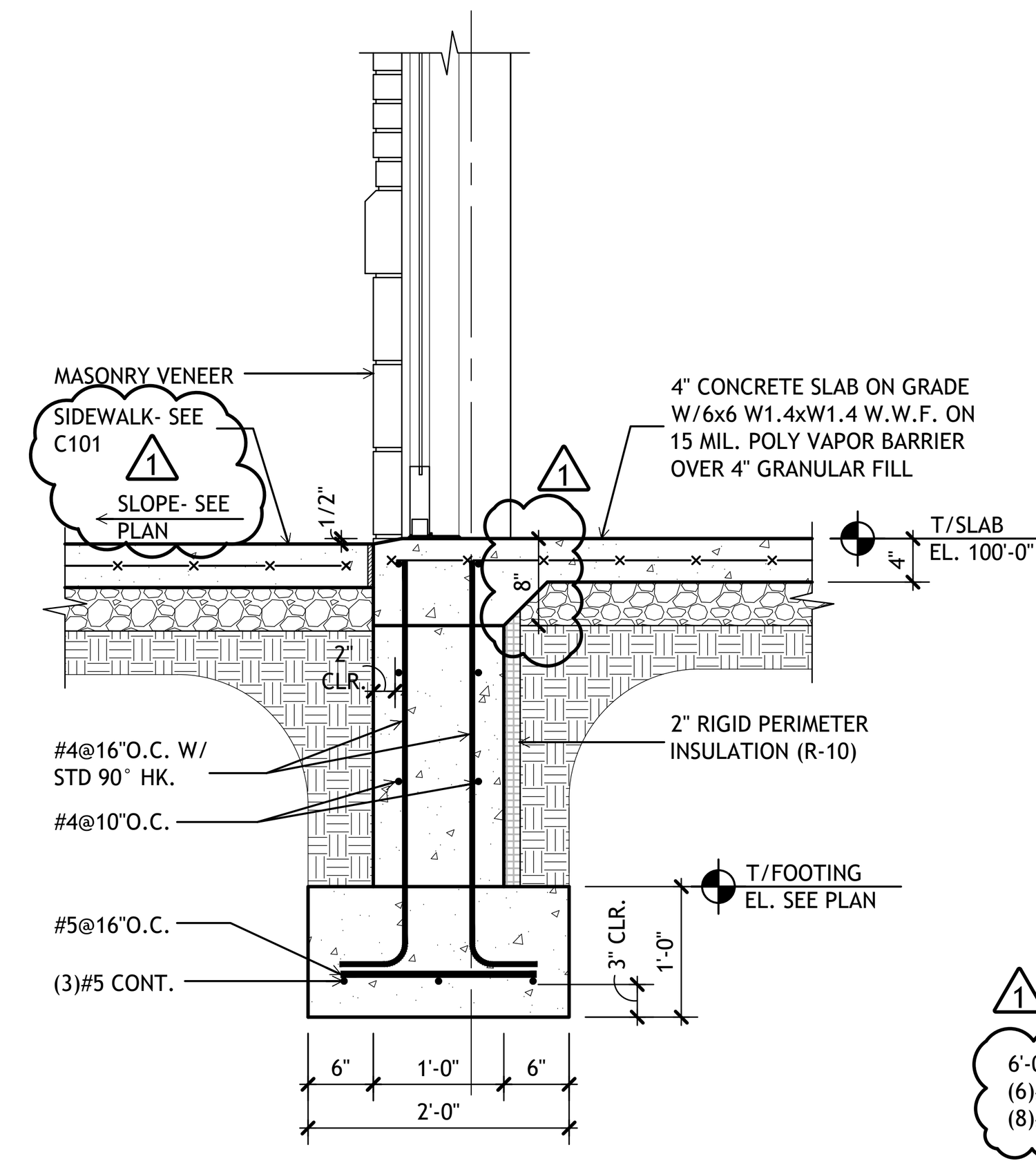
SHEET NUMBER
S102
202147.007



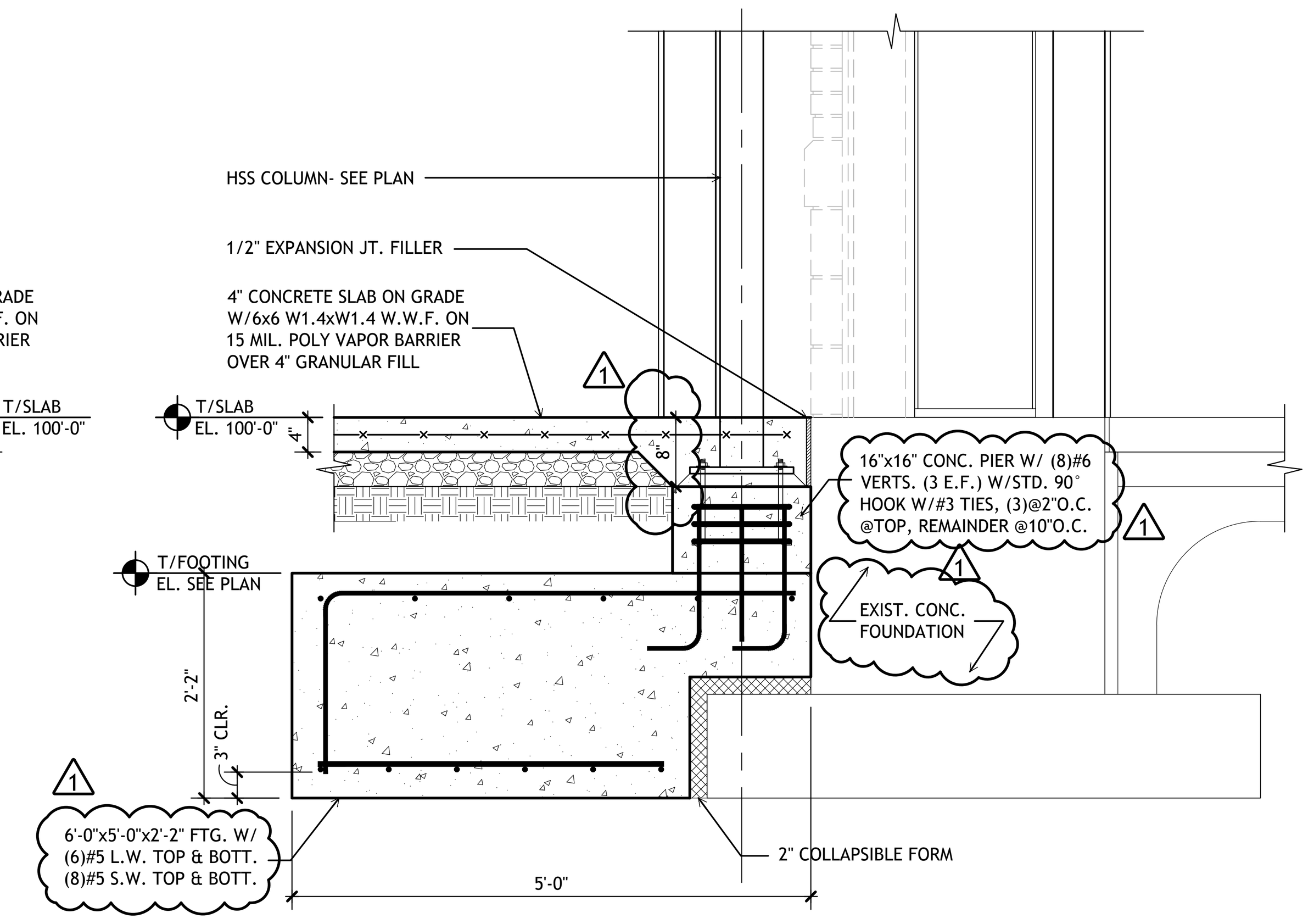
1 Section S-201 SCALE:3/4"=1'-0"



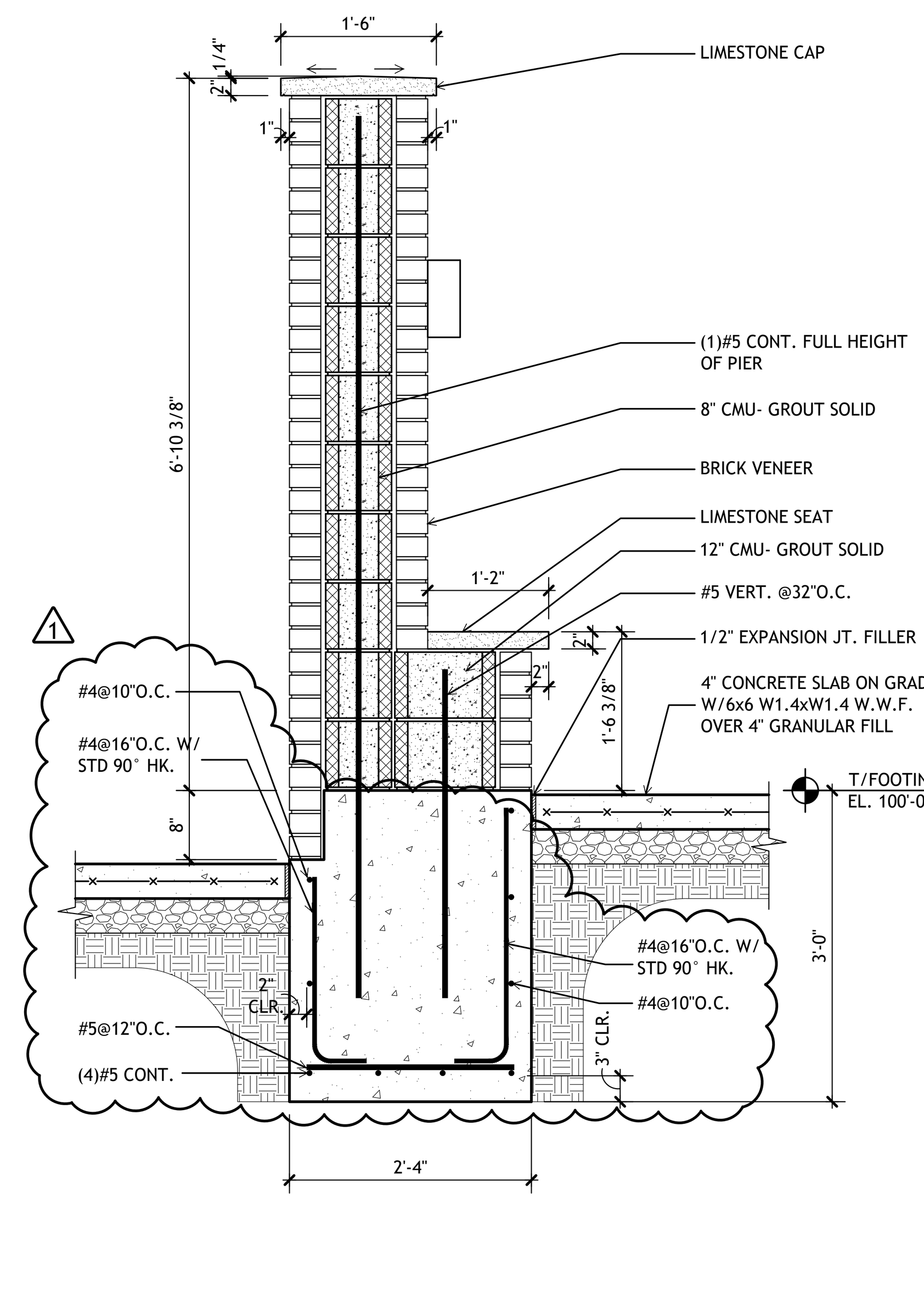
2 Section S-201 SCALE:3/4"=1'-0"



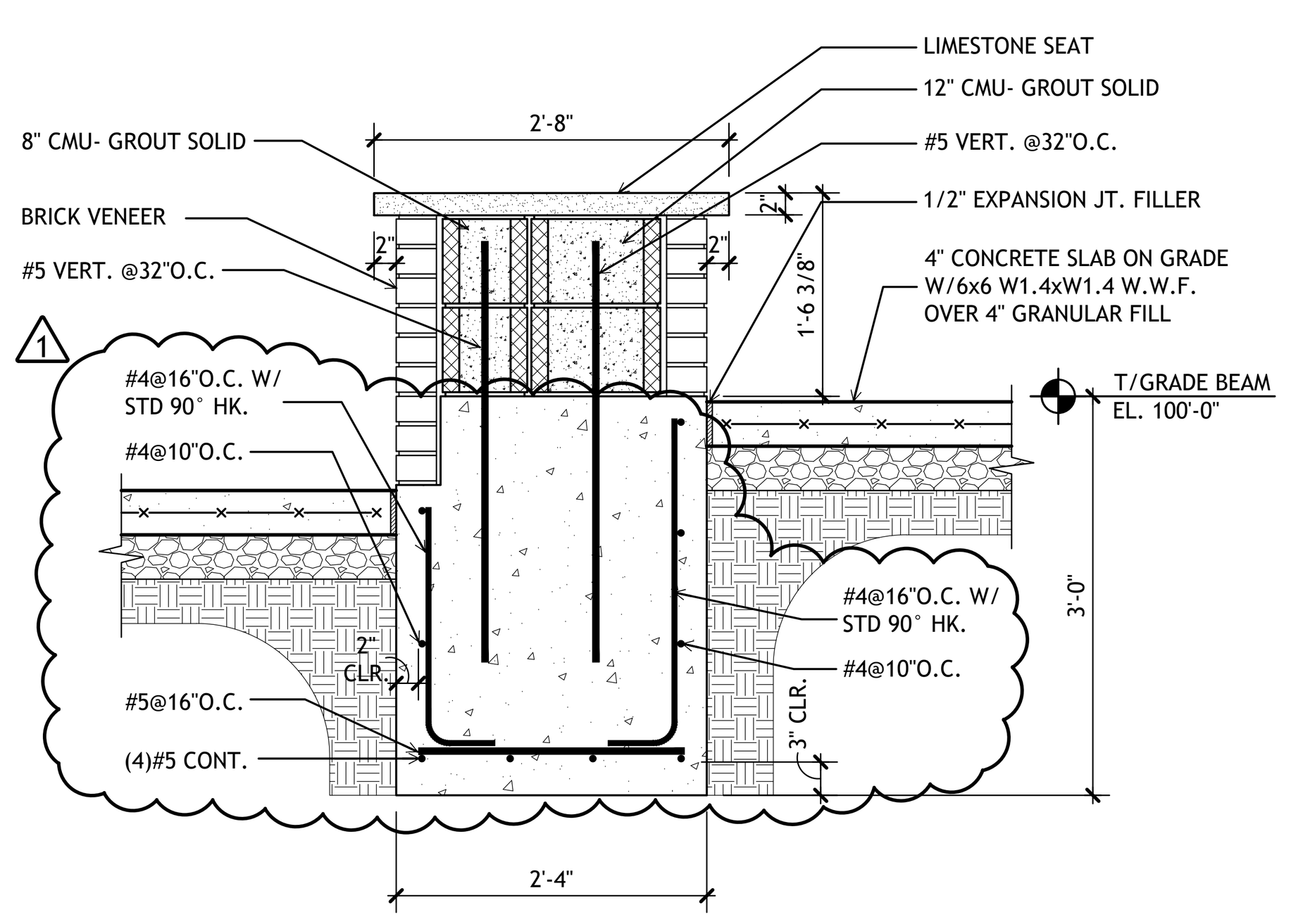
3 Section S-201 SCALE:3/4"=1'-0"



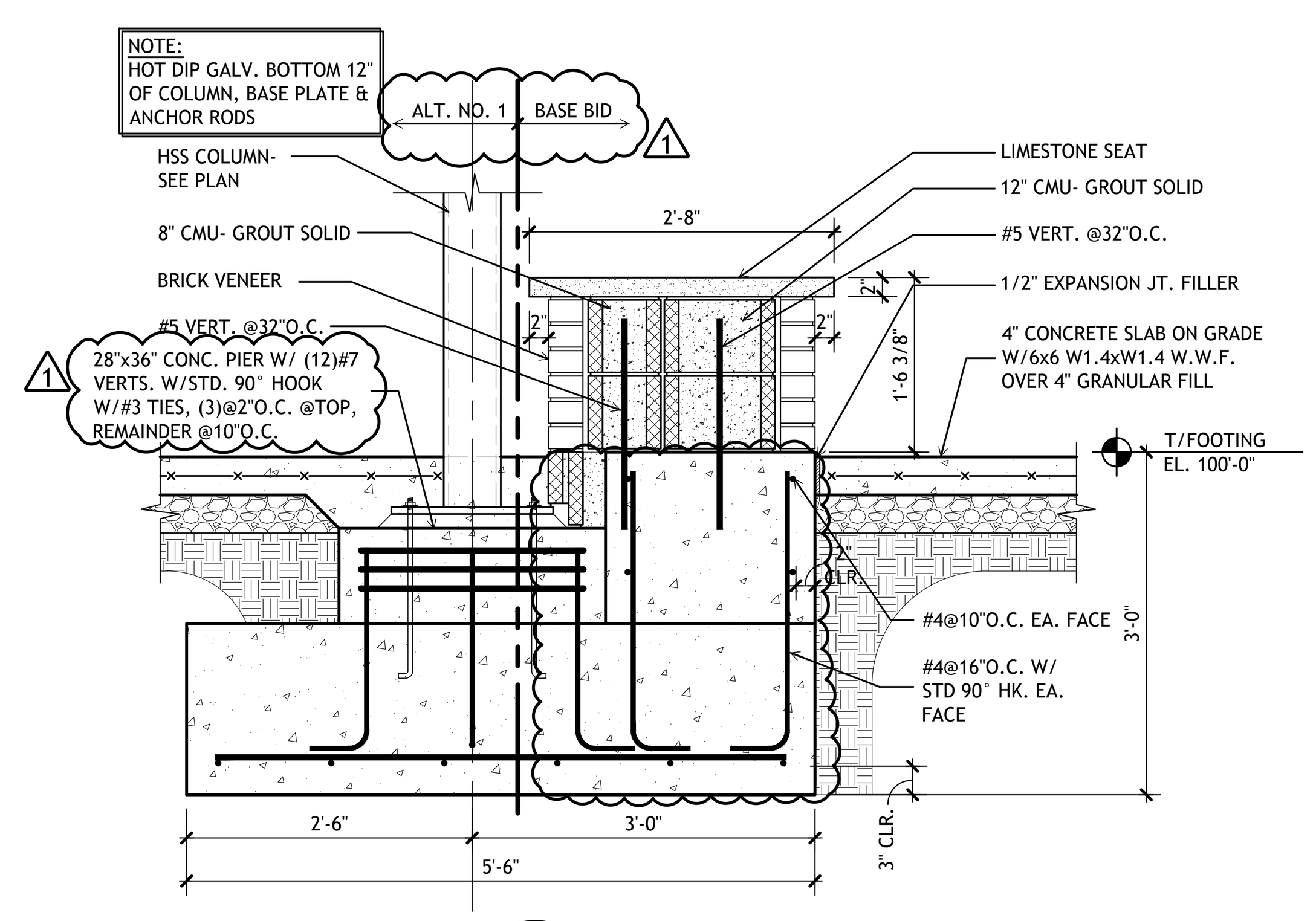
4 Section S-201 SCALE:3/4"=1'-0"



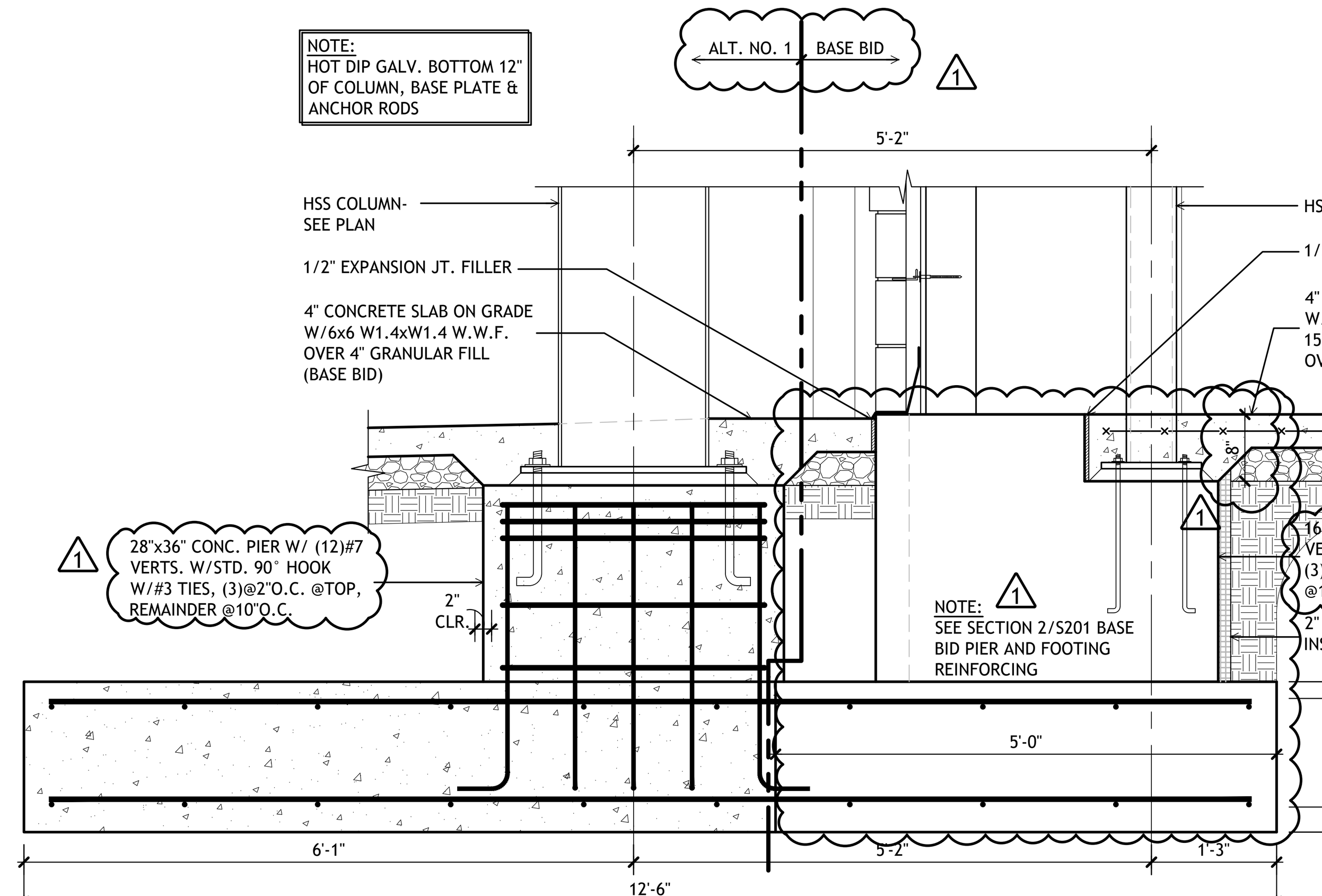
5 Section S-201 SCALE:3/4"=1'-0"



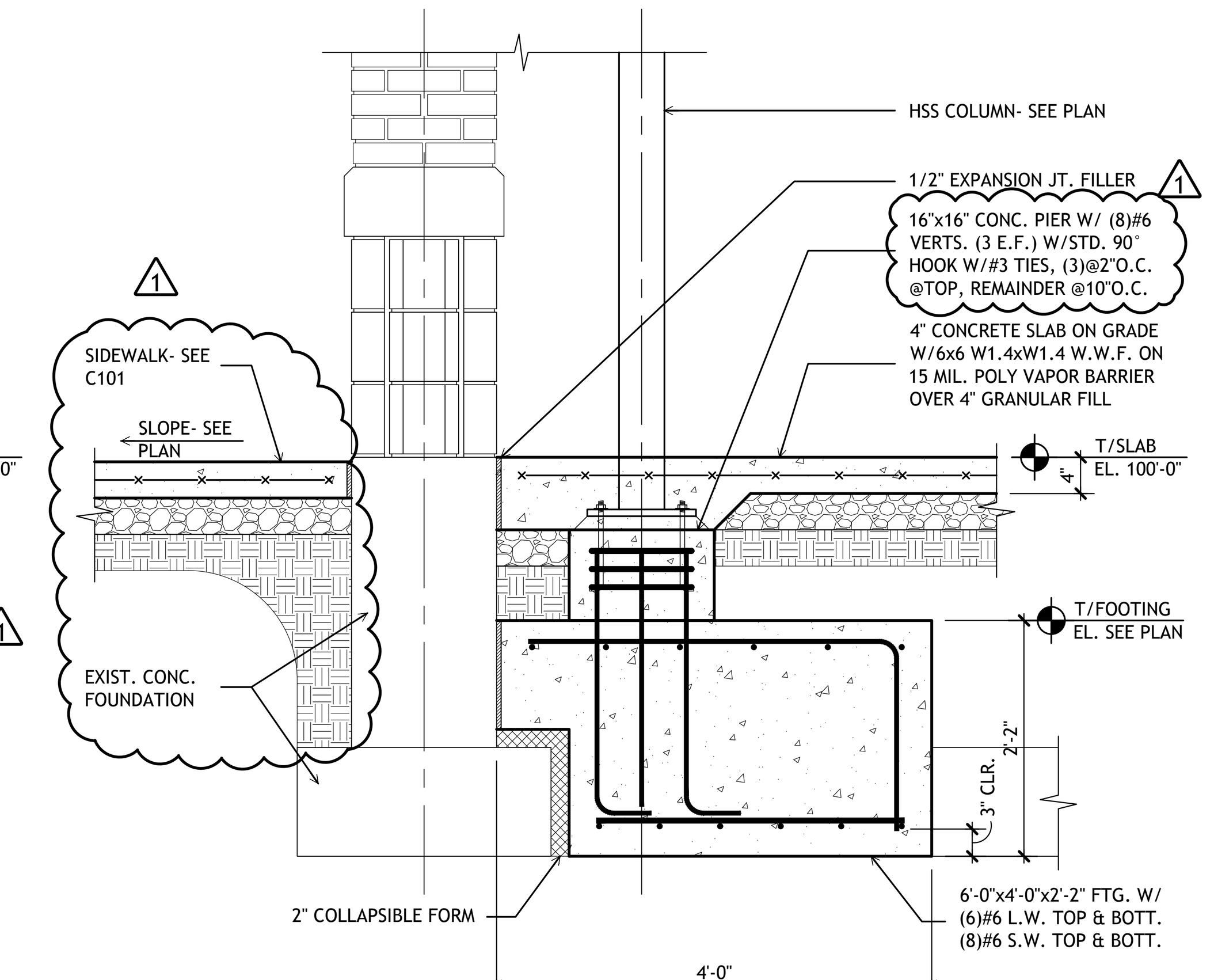
6 Section S-201 SCALE:3/4"=1'-0"



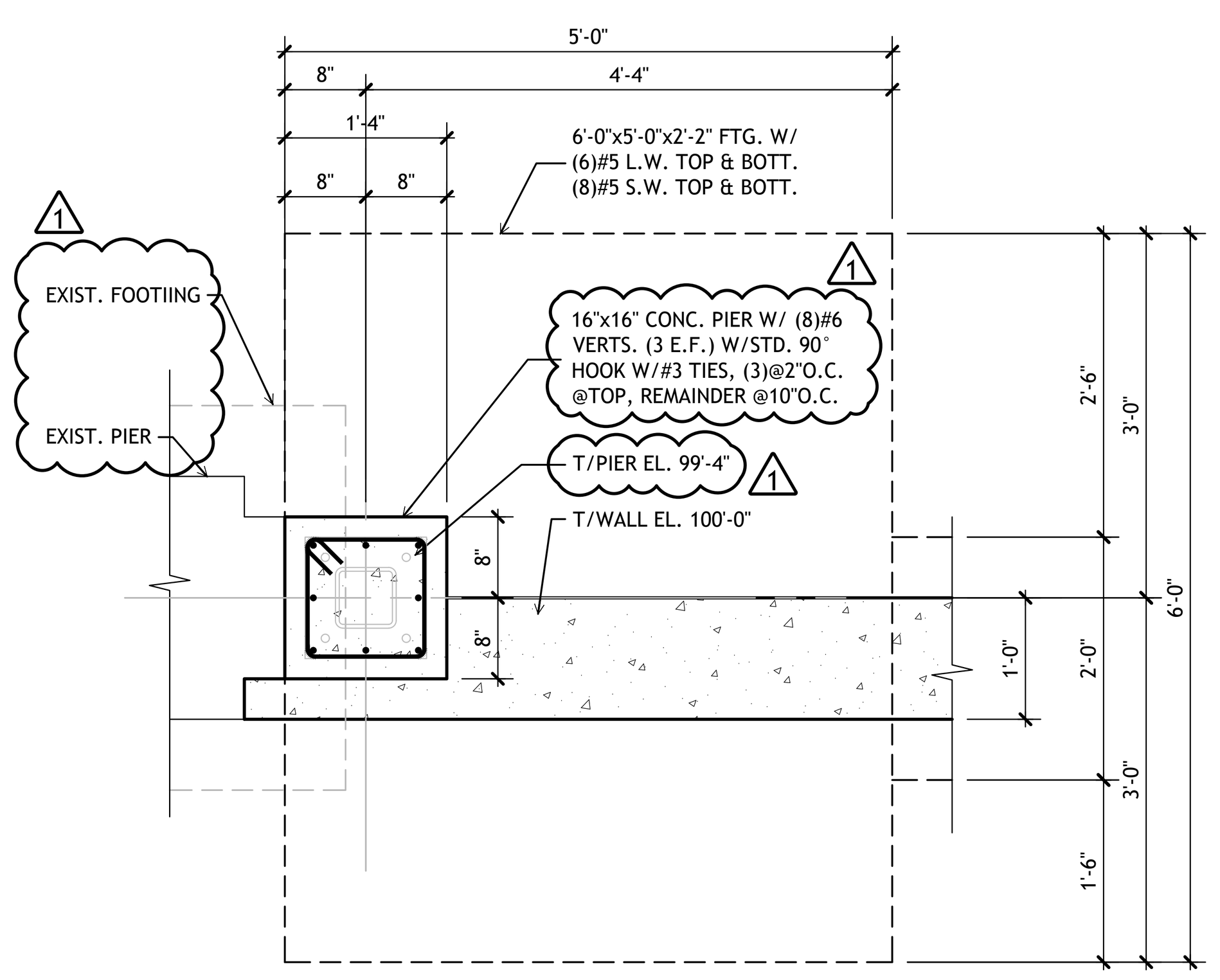
7 Section S-201 SCALE:3/4"=1'-0"



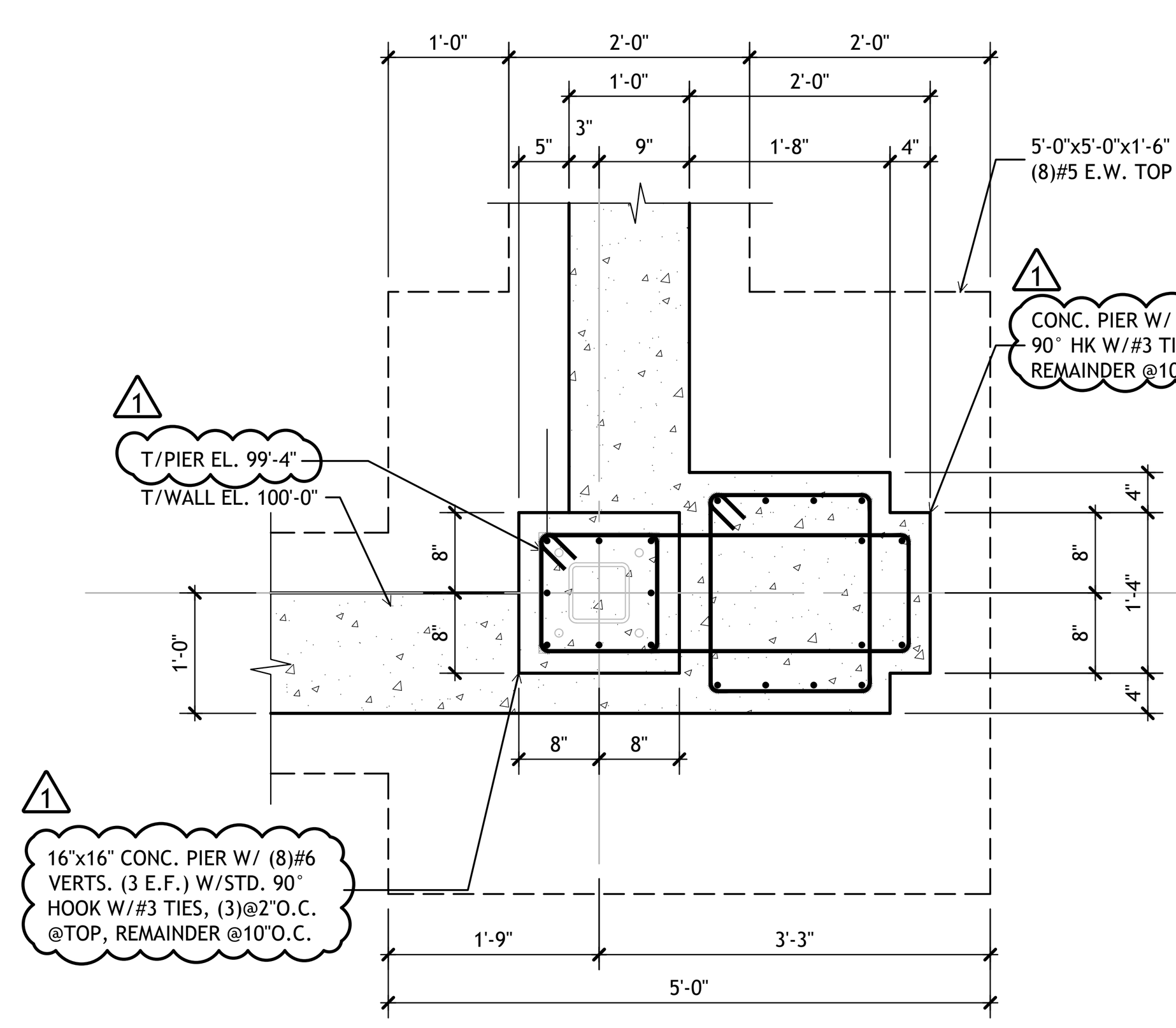
8 Section S-201 SCALE:3/4"=1'-0"



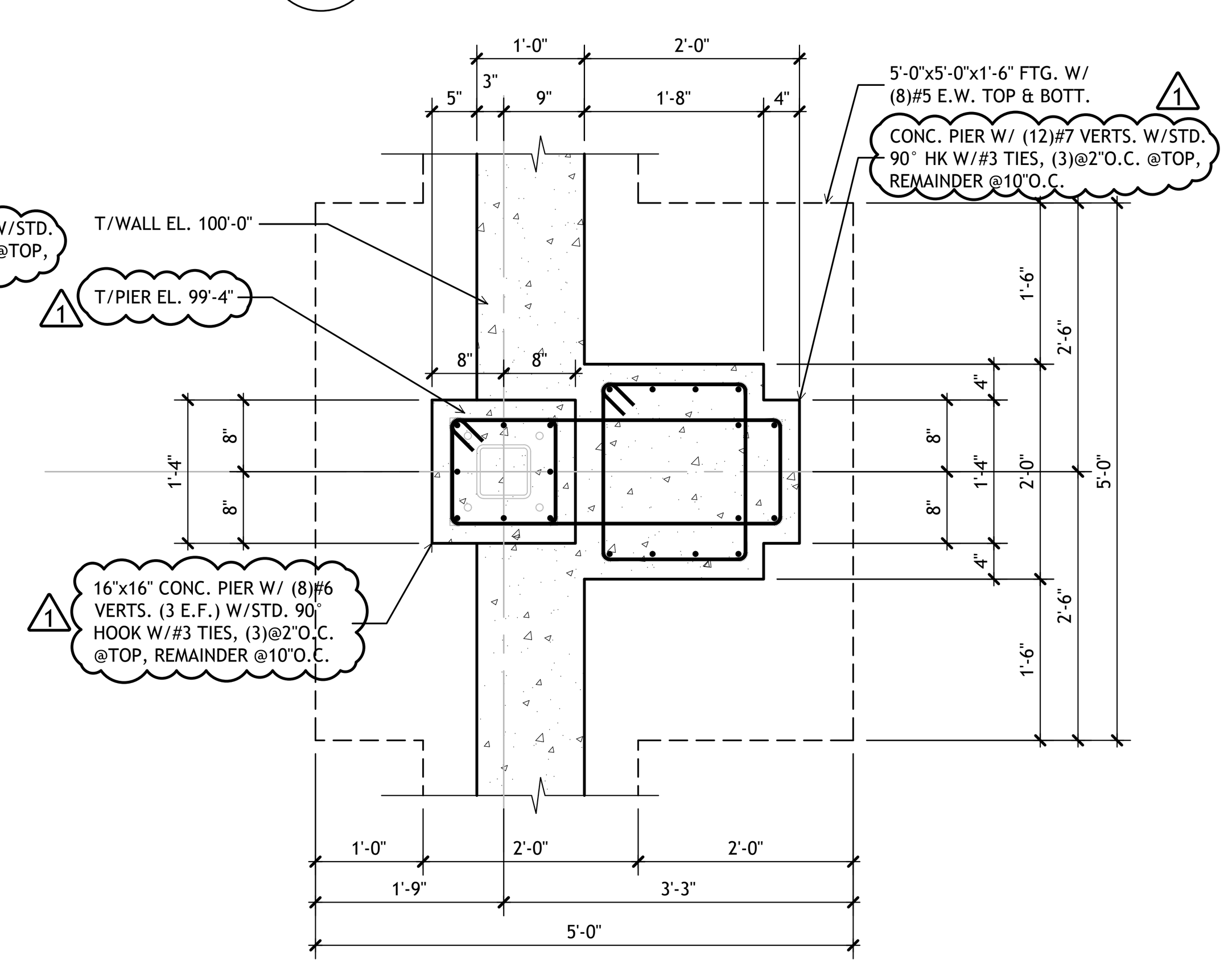
9 Section S-201 SCALE:3/4"=1'-0"



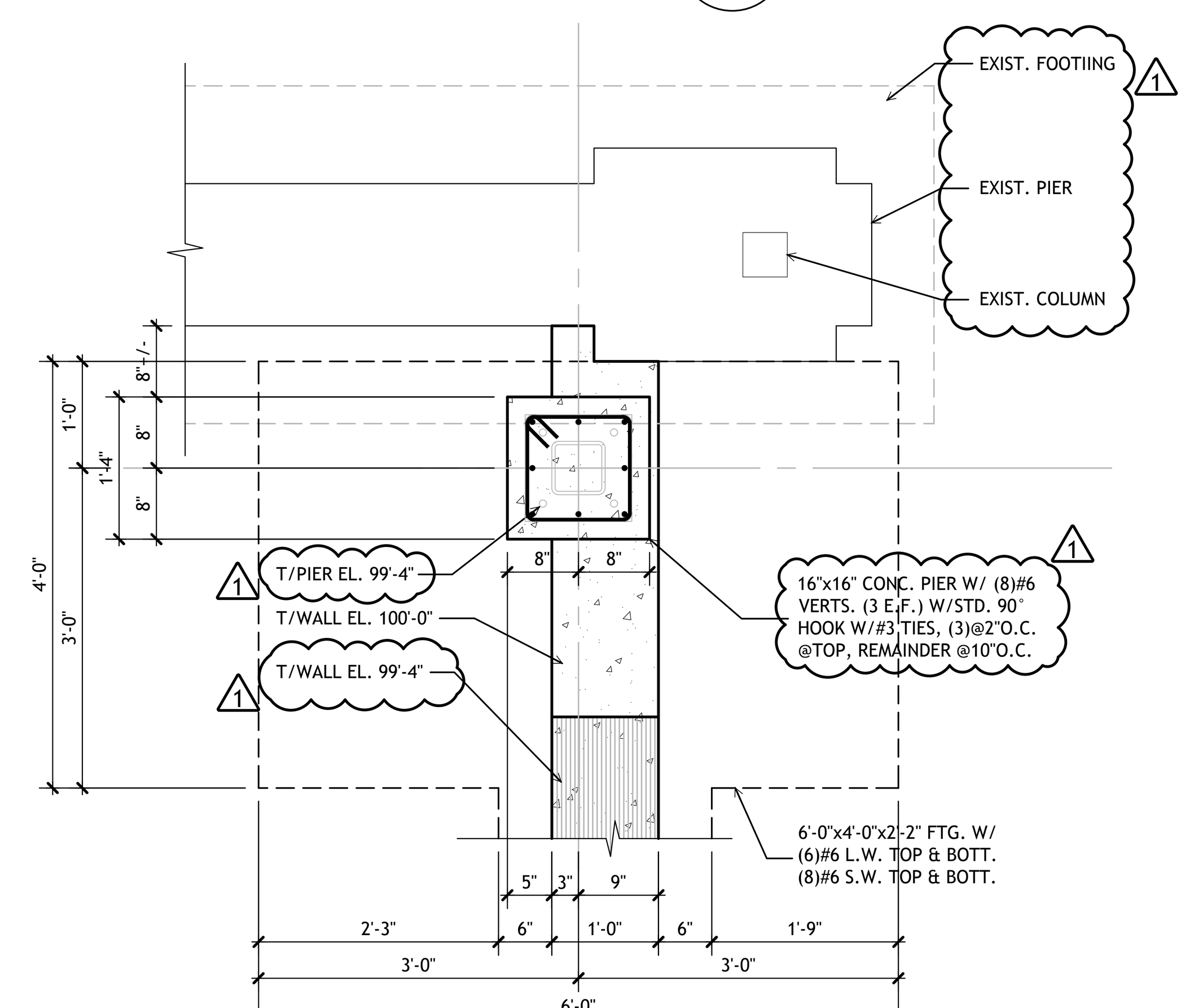
10 Pier Detail S-201 SCALE:3/4"=1'-0"



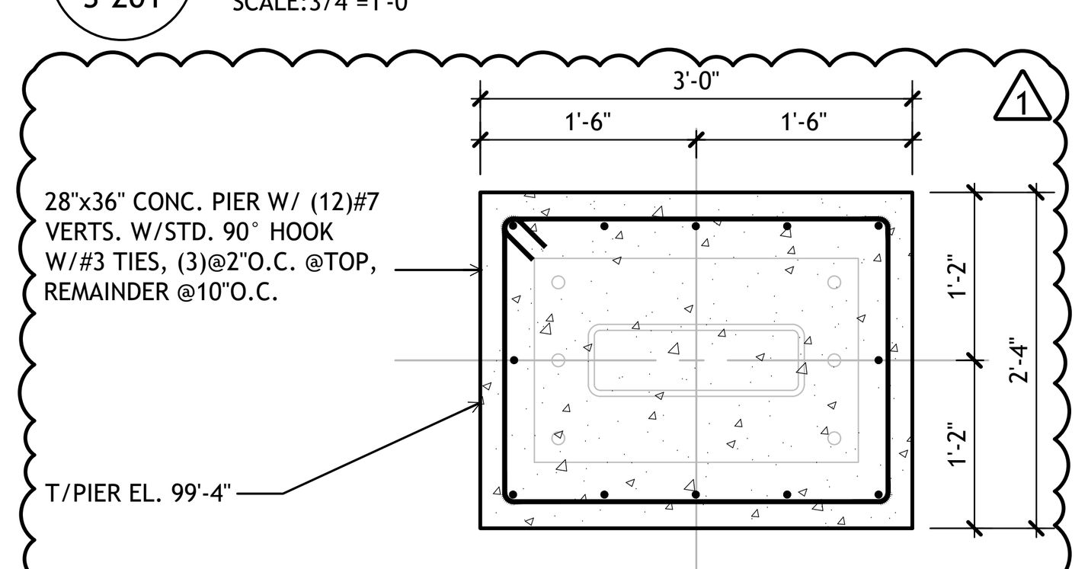
11 Pier Detail S-201 SCALE:3/4"=1'-0"



12 Pier Detail S-201 SCALE:3/4"=1'-0"



13 Pier Detail S-201 SCALE:3/4"=1'-0"



14 Pier Detail S-201 SCALE:3/4"=1'-0"

NOTE: THIS DRAWING IS INTENDED TO BE PLOTTED IN COLOR. IF THIS NOTE DOES NOT APPEAR IN COLOR, IT IS PLOTTED INCORRECTLY. DISCARD AND OBTAIN AN ACCURATE DRAWING

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ARCHITECTURE • ENGINEERING • INTERIORS
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812.282.9554 PHONE
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PROJECT TITLE
HENRYVILLE HIGH SCHOOL
2023 HENRYVILLE FLOORING REPLACEMENT PHASE 2 & CAFETERIA EXPANSION

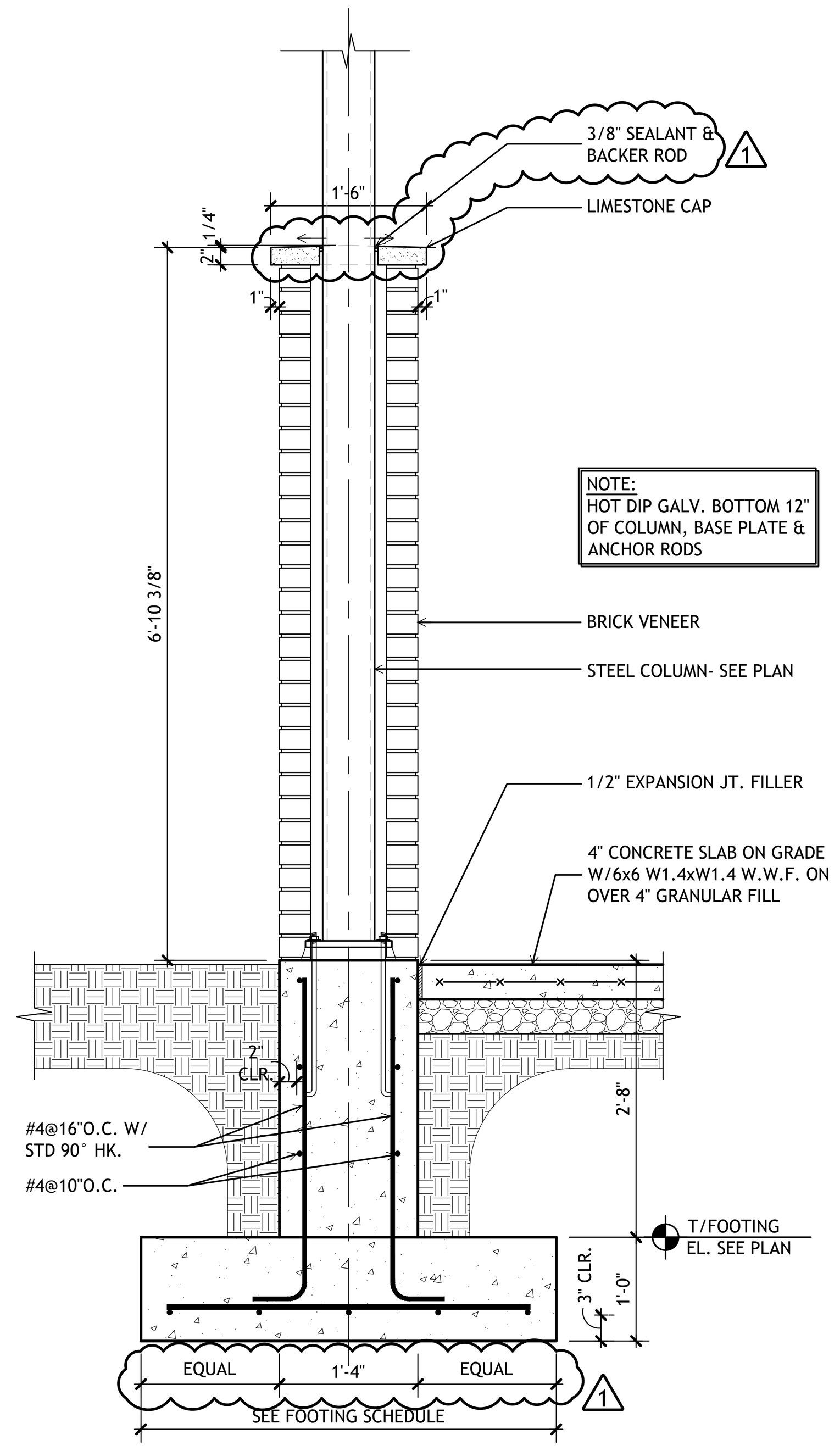
OWNER
BORDEN - HENRYVILLE SCHOOL CORPORATION
213 FERGUSON STREET
HENRYVILLE, INDIANA 47126

Drawn JK
Checked By HK

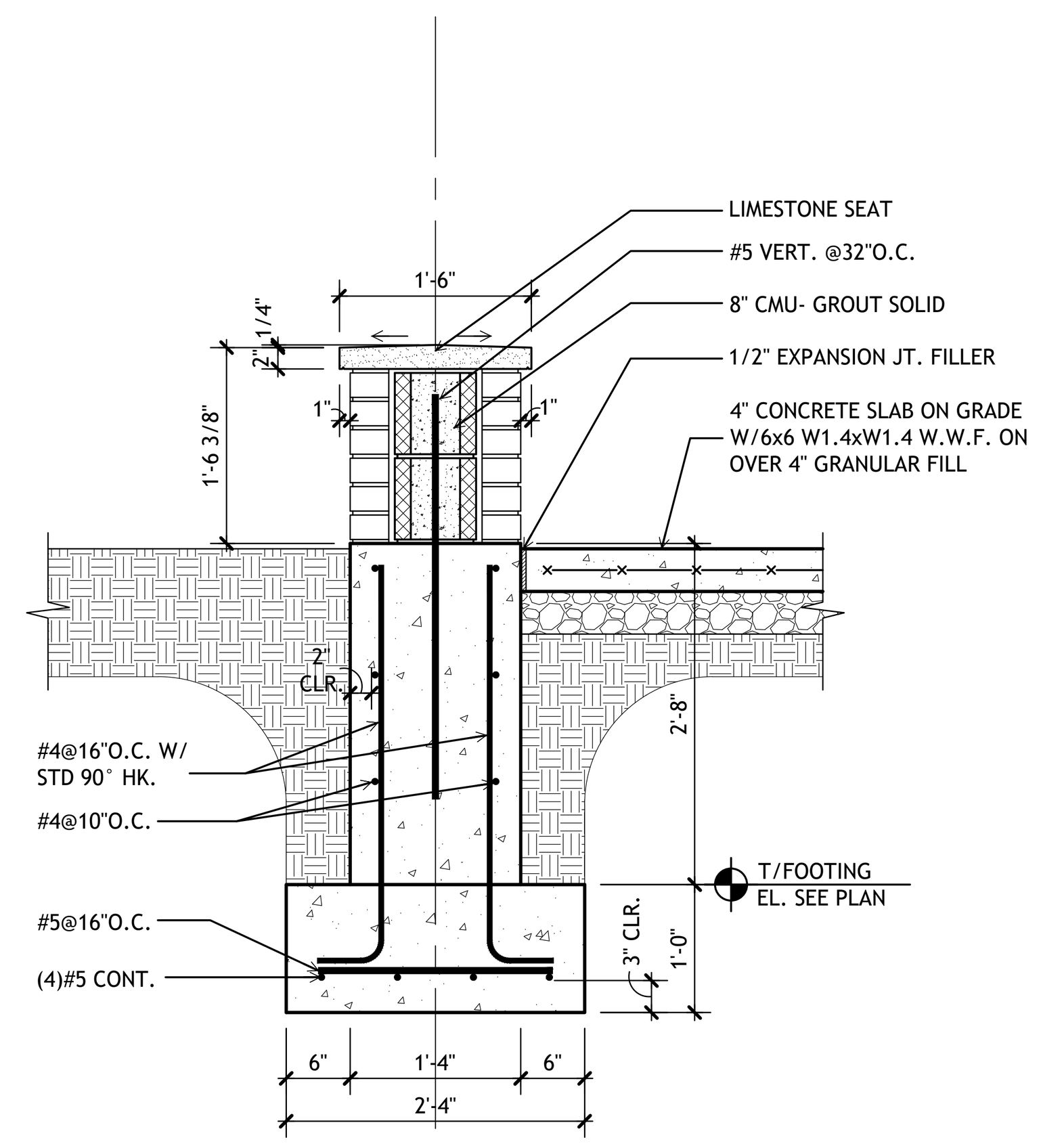
SHEET TITLE
FOUNDATION SECTIONS & DETAILS

DATE
02/22/2023

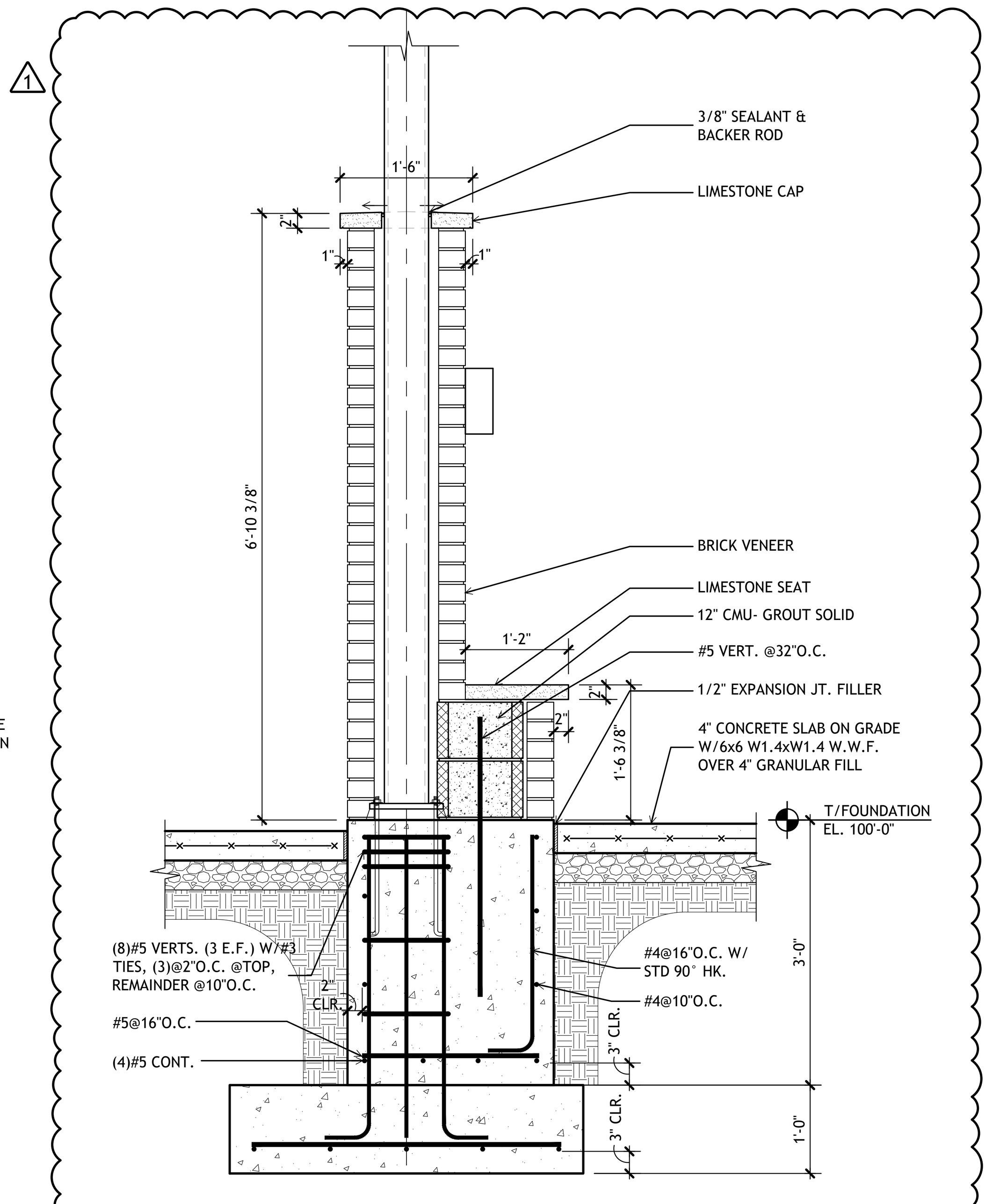
SHEET NUMBER
S201
202147.007



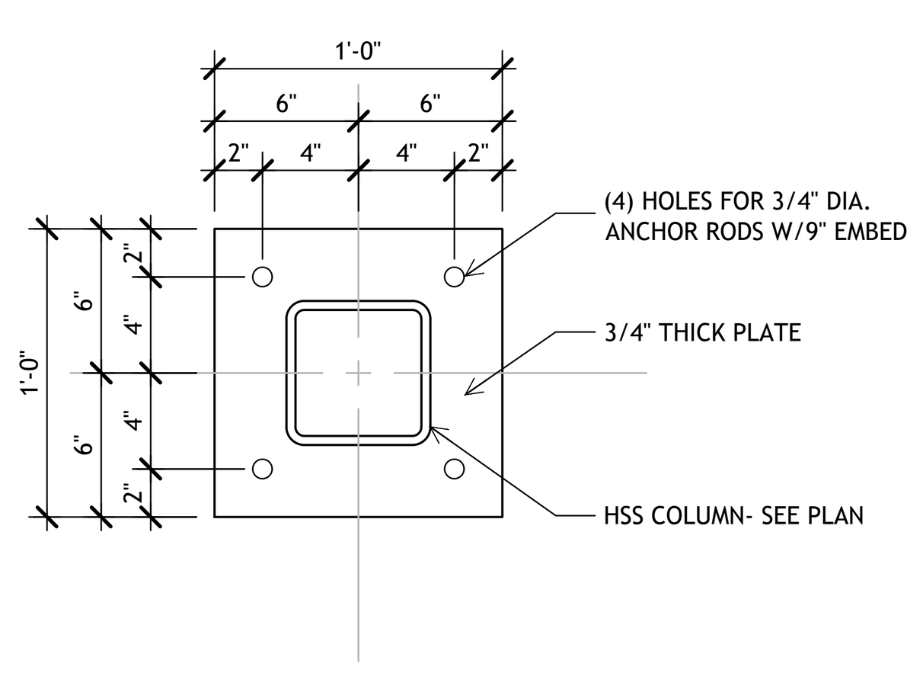
1 S-202 Section
SCALE:3/4"=1'-0"



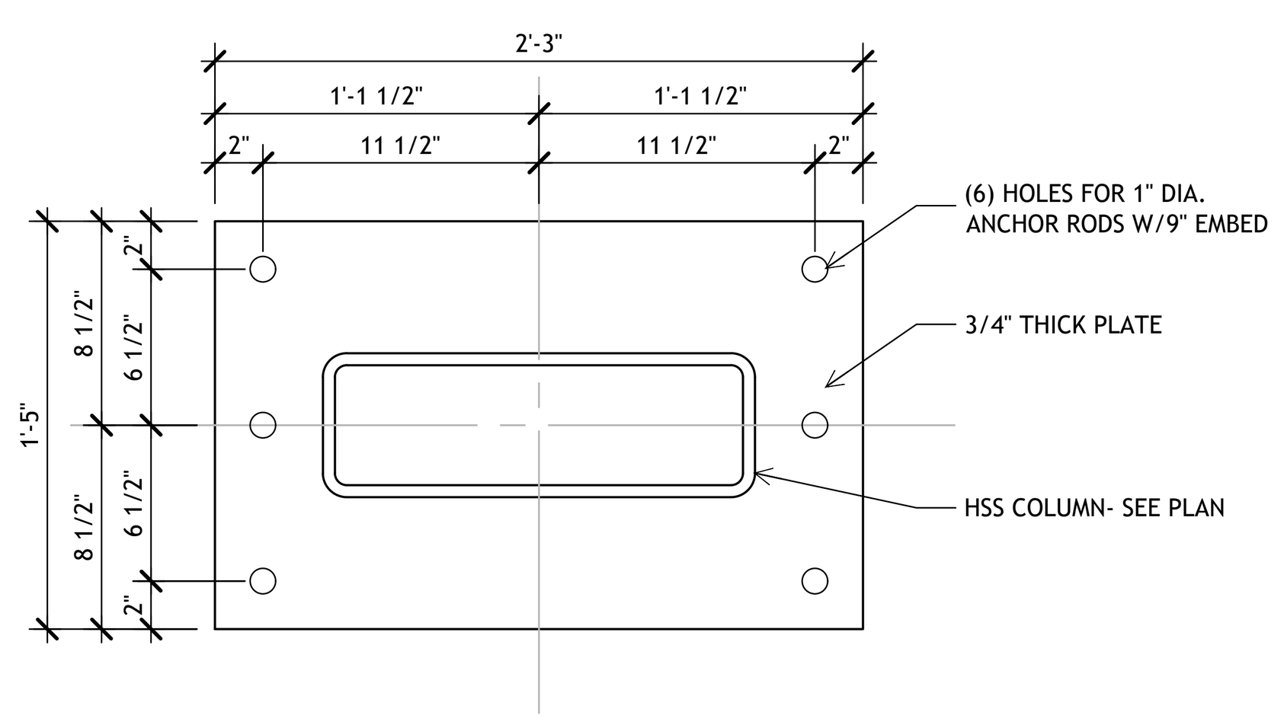
2 S-202 Section
SCALE:3/4"=1'-0"



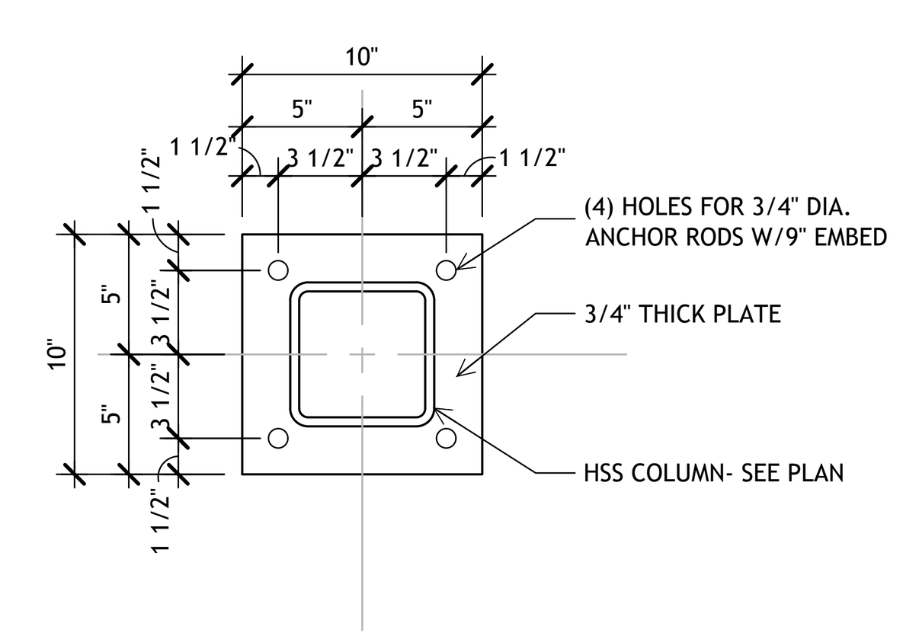
3 S-202 Section
SCALE:3/4"=1'-0"



A S-202 Base Plate Detail
SCALE: 1 1/2"=1'-0"



B S-202 Base Plate Detail
SCALE: 1 1/2"=1'-0"



C S-202 Base Plate Detail
SCALE: 1 1/2"=1'-0"

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ARCHITECTURE • ENGINEERING • INTERIORS
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ISSUED FOR | DATE
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Revisions
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PROJECT TITLE
HENRYVILLE HIGH SCHOOL
2023 HENRYVILLE FLOORING REPLACEMENT PHASE 2 & CAFETERIA EXPANSION

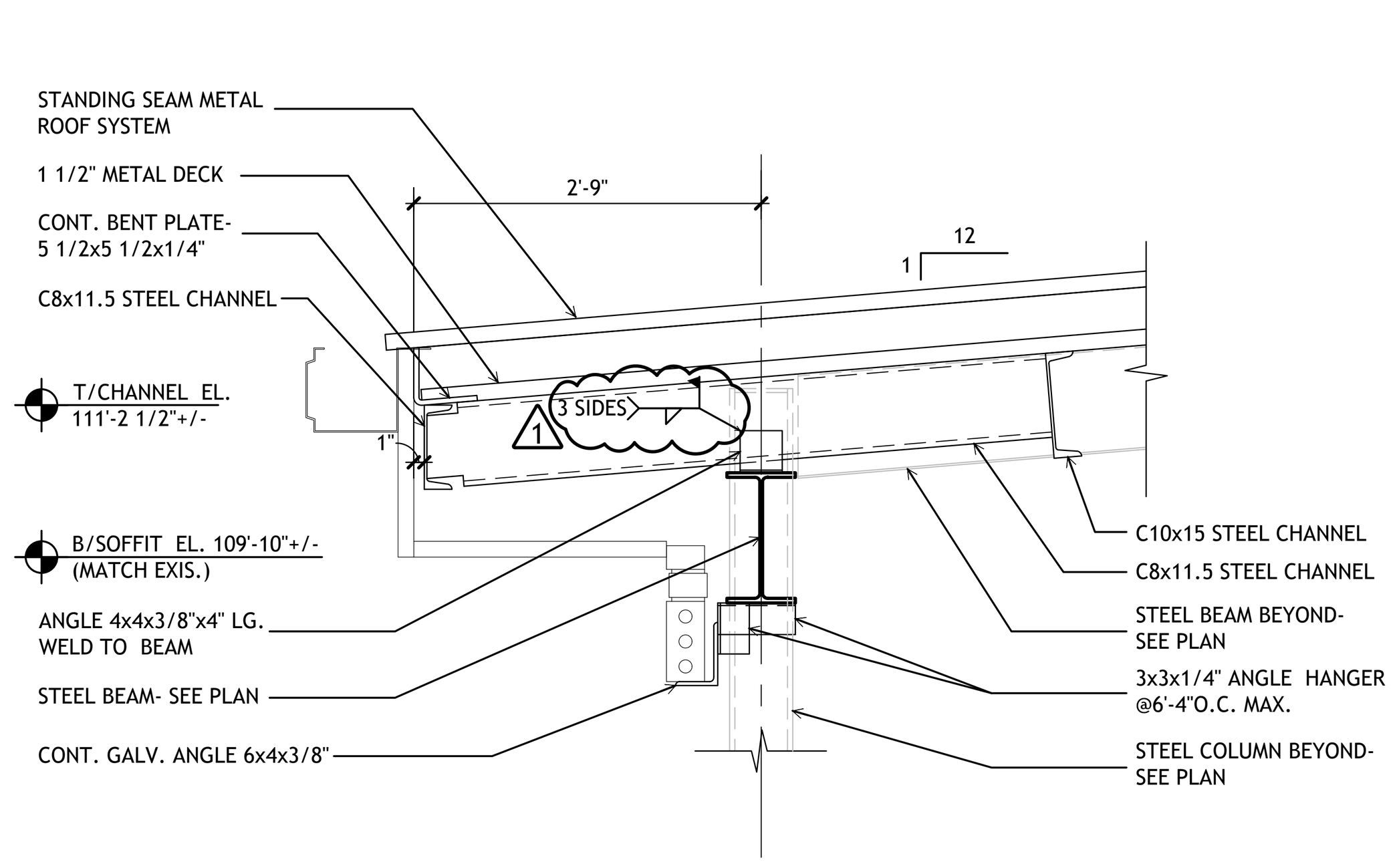
OWNER
BORDEN - HENRYVILLE SCHOOL CORPORATION
213 FERGUSON STREET HENRYVILLE, INDIANA 47126

Drawn JK
Checked By HK

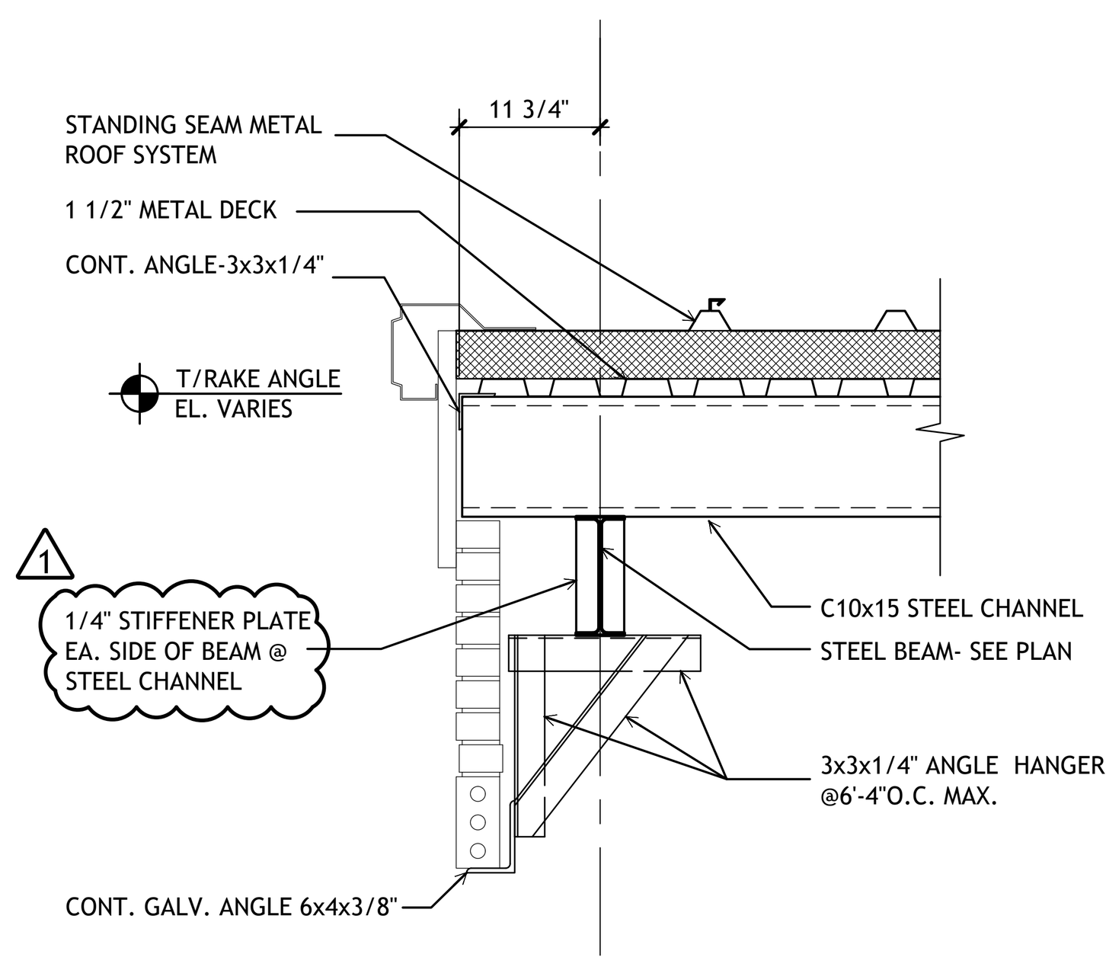
SHEET TITLE
FOUNDATION SECTIONS & DETAILS

DATE
02/22/2023

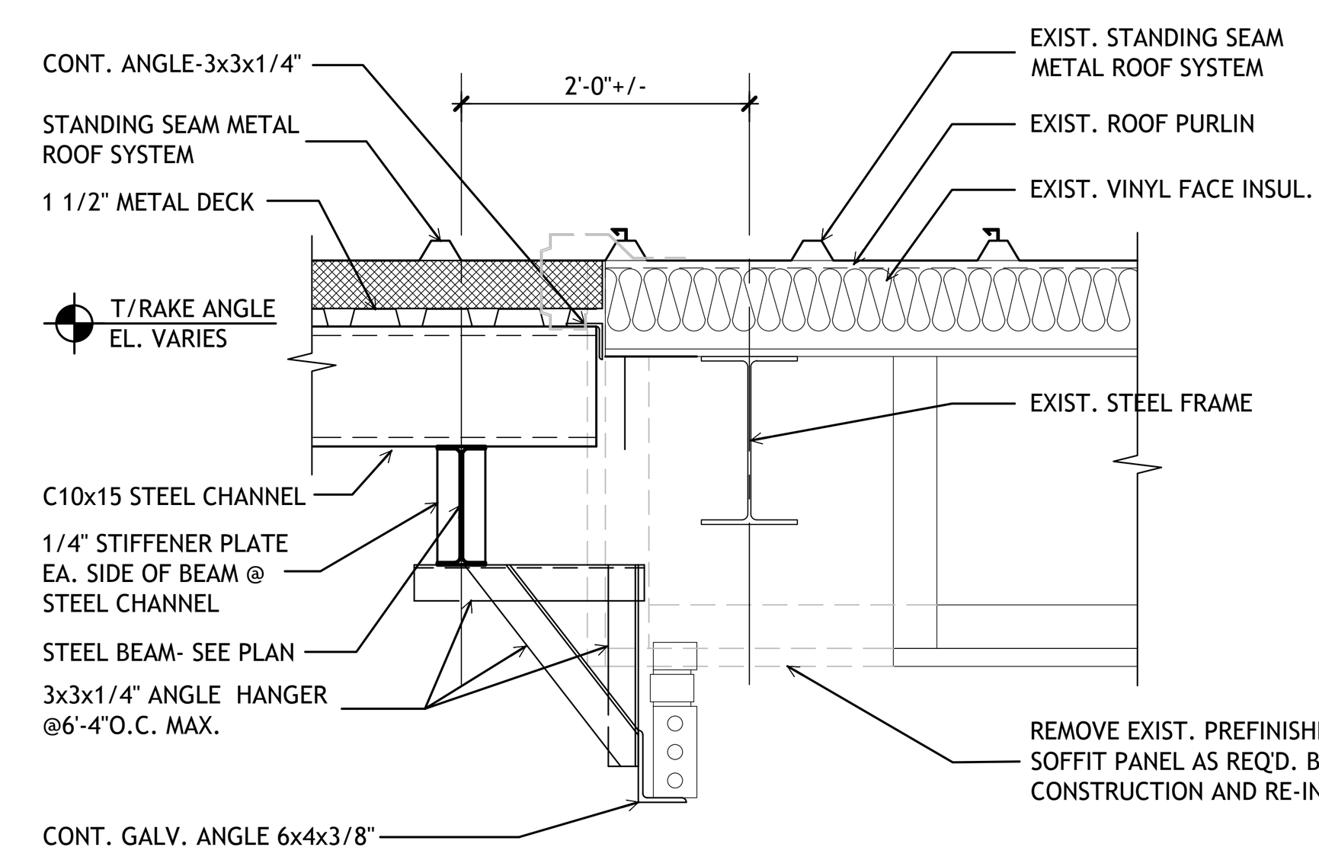
SHEET NUMBER
S202
202147.007



1 Section S-301 SCALE:3/4"=1'-0"



2 Section S-301 SCALE:3/4"=1'-0"



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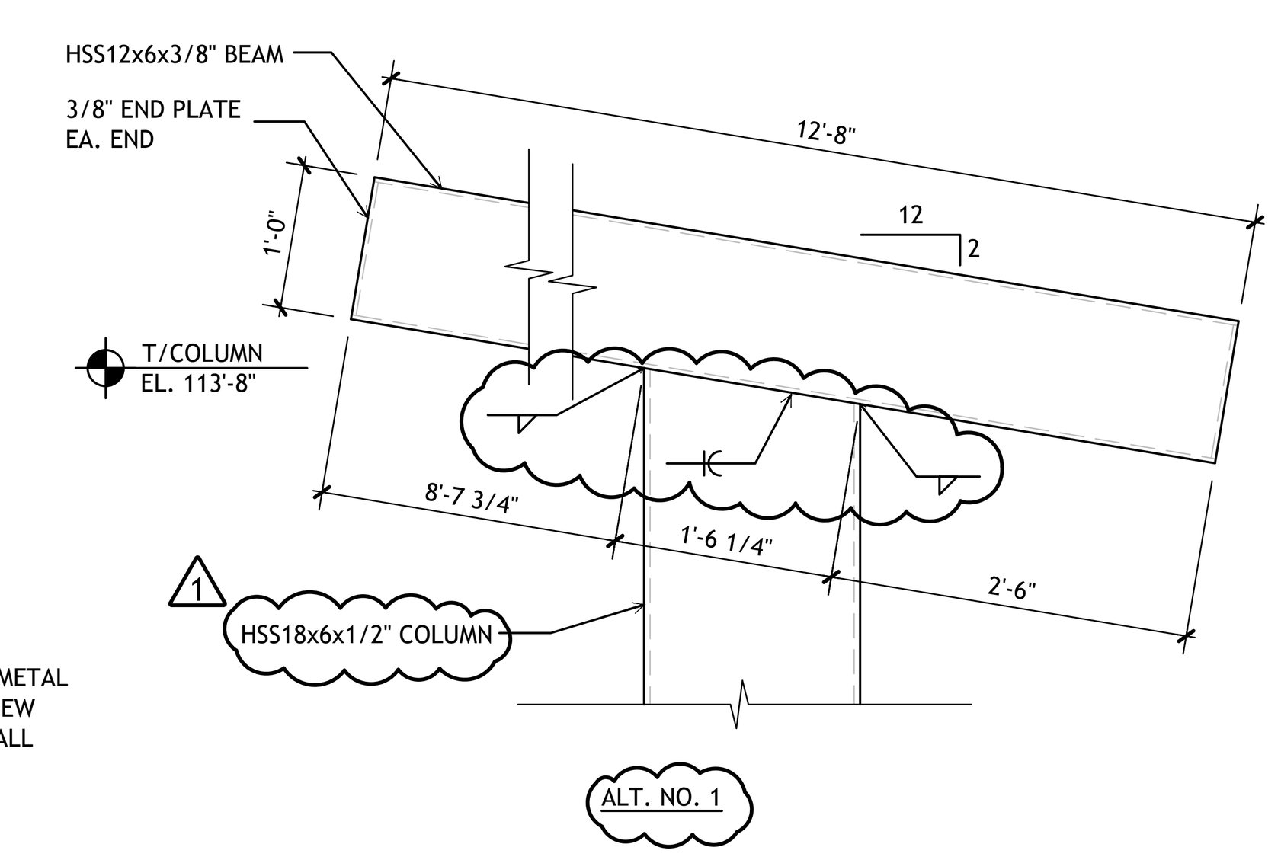

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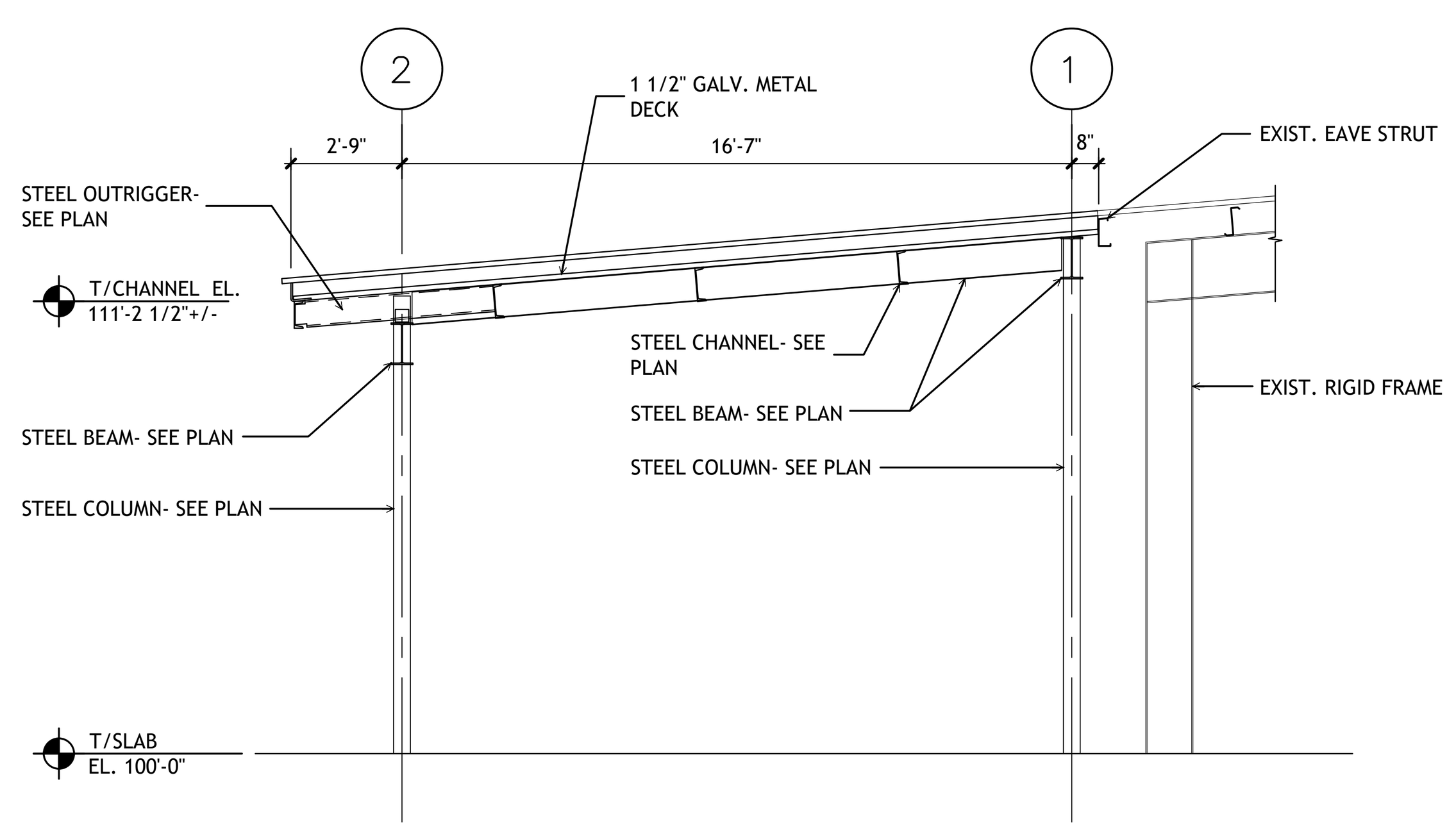
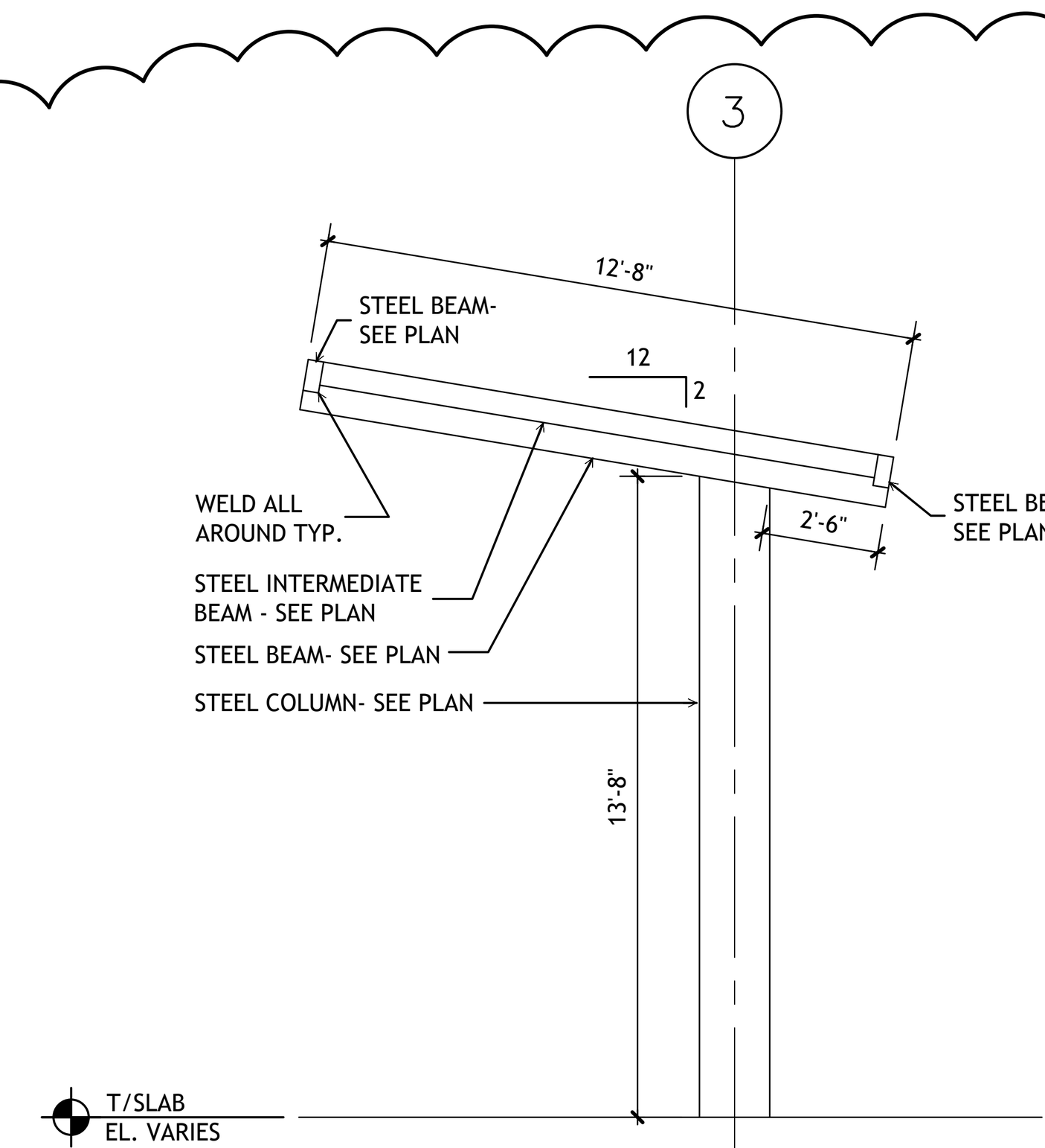
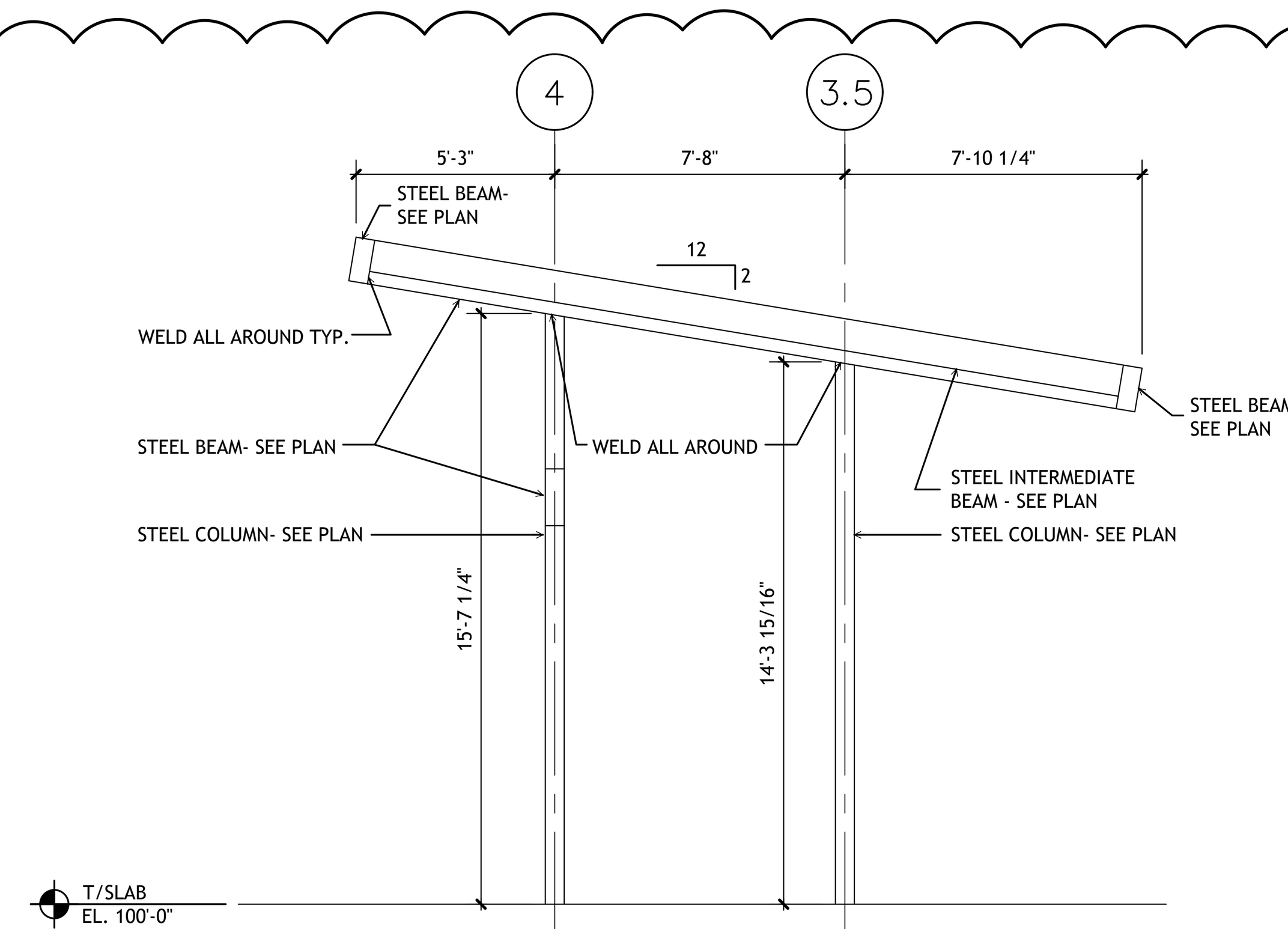


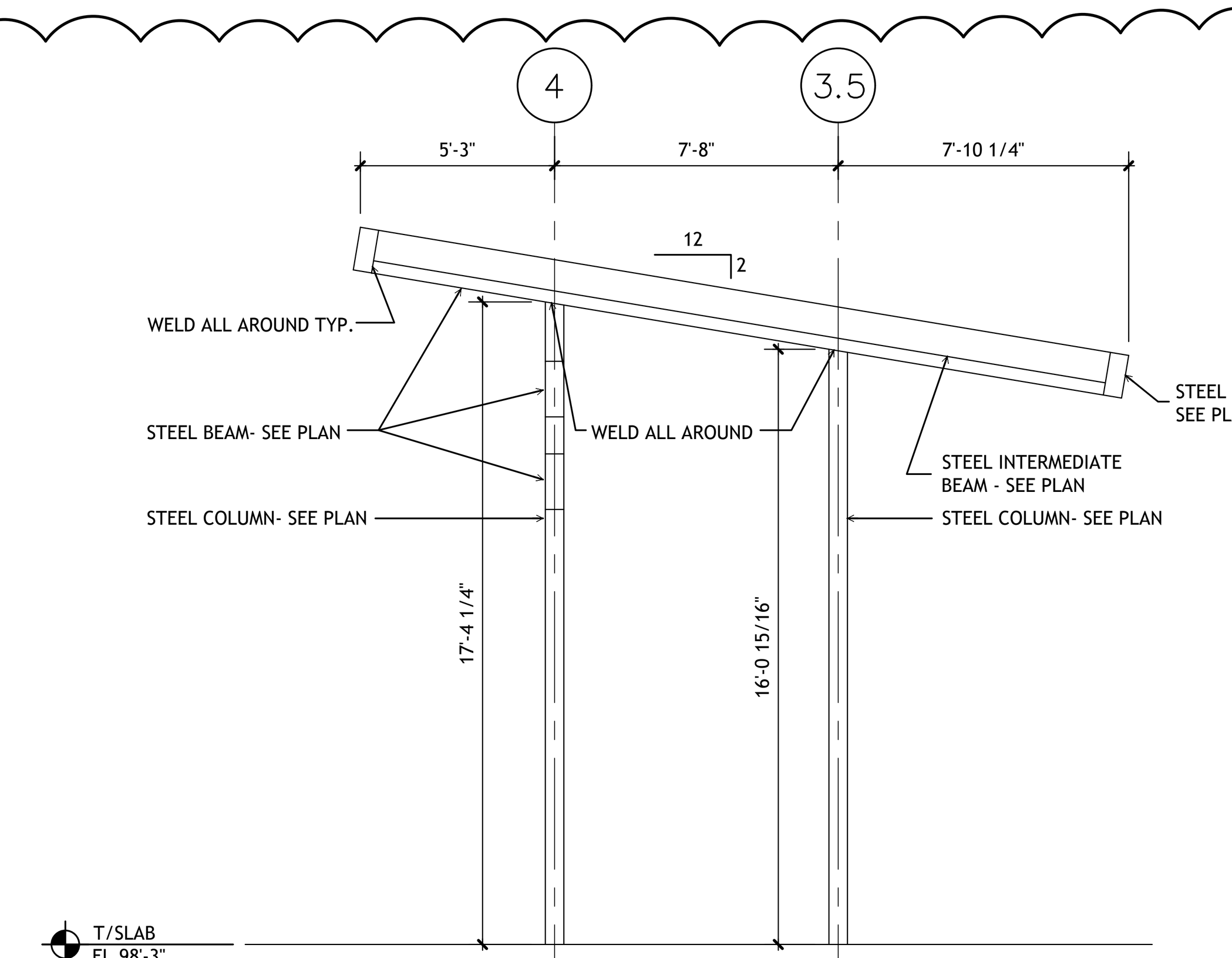
A Frame Profile S-301 SCALE:1/4"=1'-0" (BASE BID)



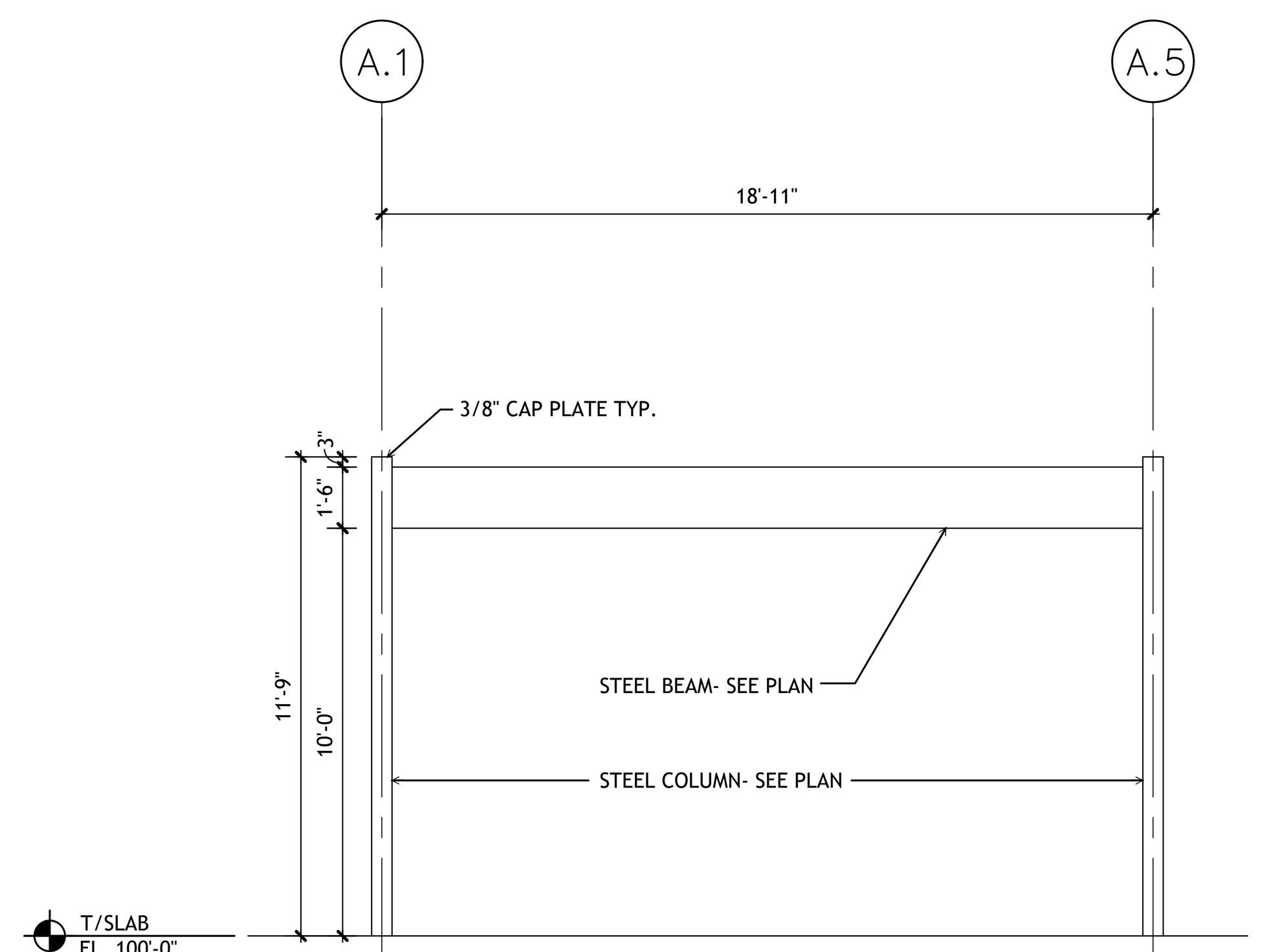
B Frame Profile S-301 SCALE:1/4"=1'-0" (ALT. NO. 1)



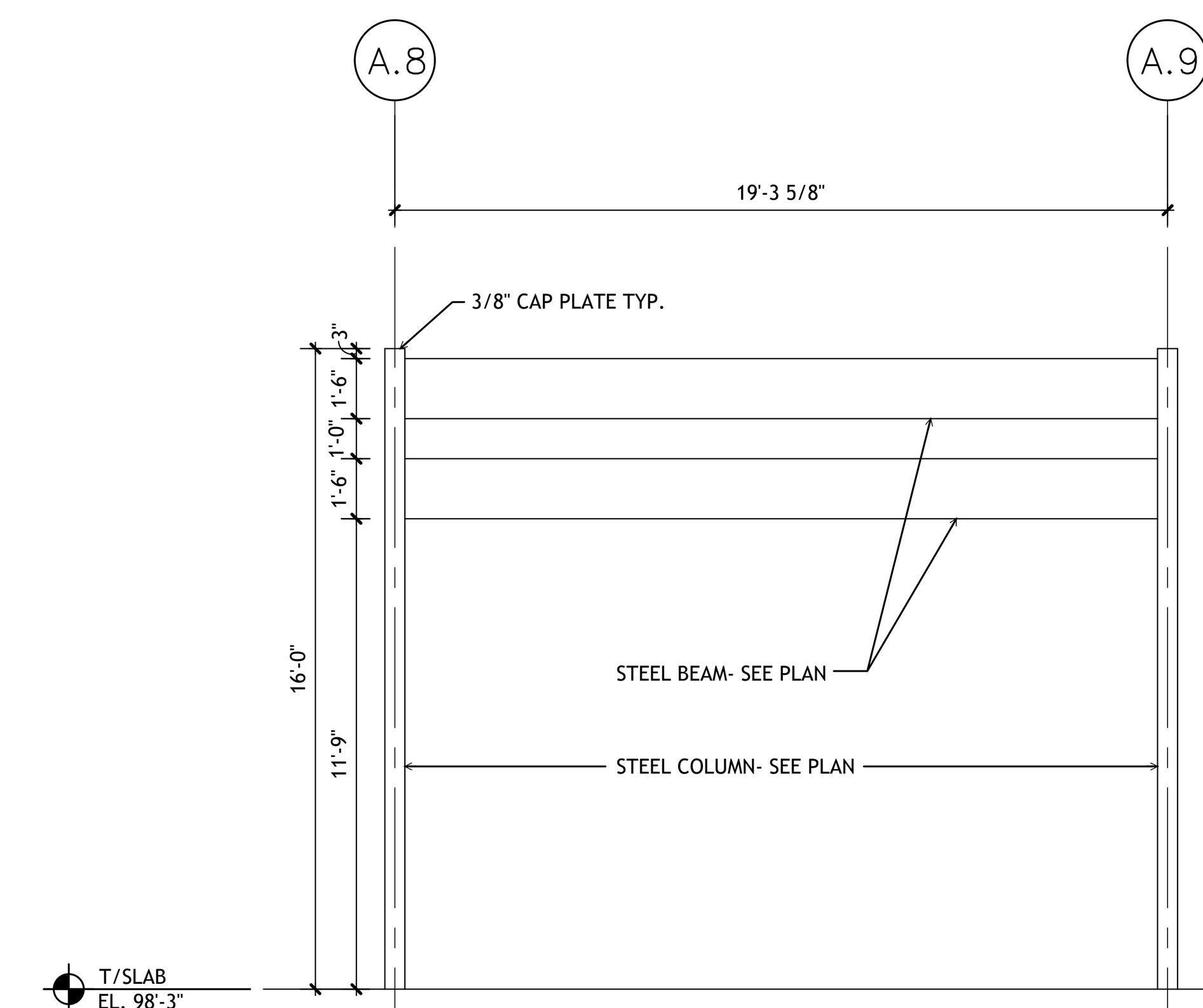
Frame Profile S-301 SCALE:1/4"=1'-0" (ALT. NO. 2B ELEMENTARY ENTRANCE)



Frame Profile S-301 SCALE:1/4"=1'-0" (ALT. NO. 2B HIGH SCHOOL ENTRANCE)



E Frame Profile @ LINE 4 S-301 SCALE:1/4"=1'-0" (ALT. NO. 2A ELEMENTARY ENTRANCE)



F Frame Profile @ LINE 4 S-301 SCALE:1/4"=1'-0" (ALT. NO. 2A HIGH SCHOOL ENTRANCE)

NOTE: THIS DRAWING IS INTENDED TO BE PLOTTED IN COLOR. IF THIS NOTE DOES NOT APPEAR IN COLOR, IT IS PLOTTED INCORRECTLY. DISCARD AND OBTAIN AN ACCURATE DRAWING

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2023 HENRYVILLE FLOORING REPLACEMENT PHASE 2 & CAFETERIA EXPANSION

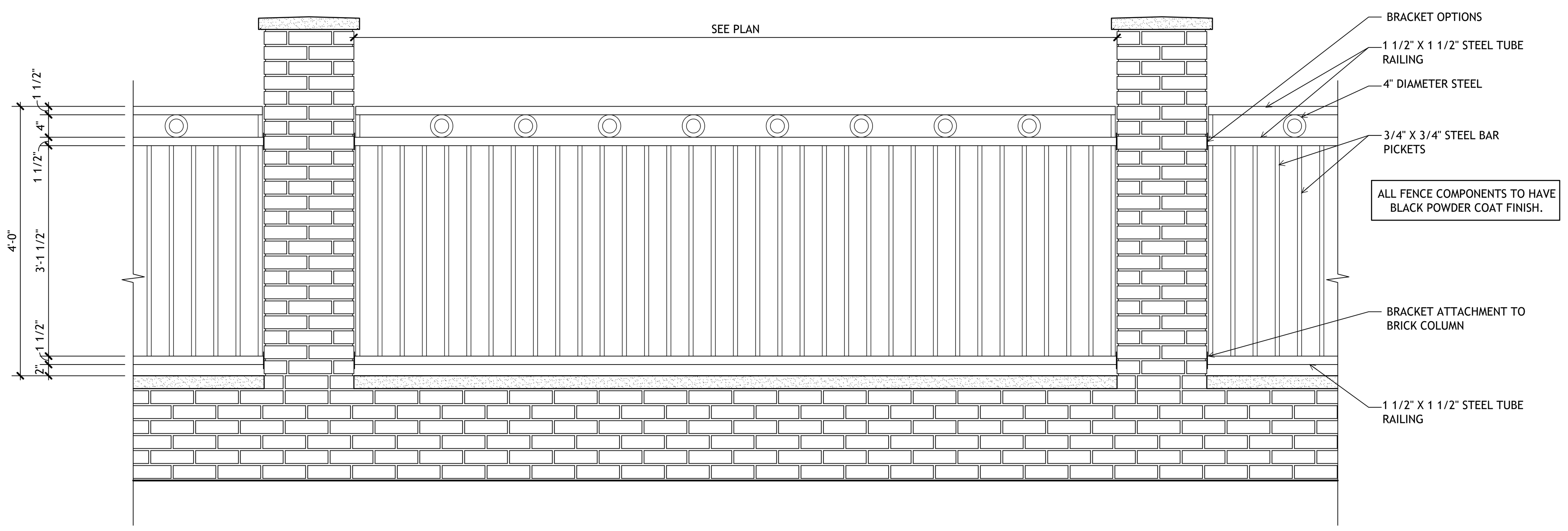
OWNER
BORDEN - HENRYVILLE SCHOOL CORPORATION
213 FERGUSON STREET
HENRYVILLE, INDIANA 47126

Drawn JK
Checked By HK

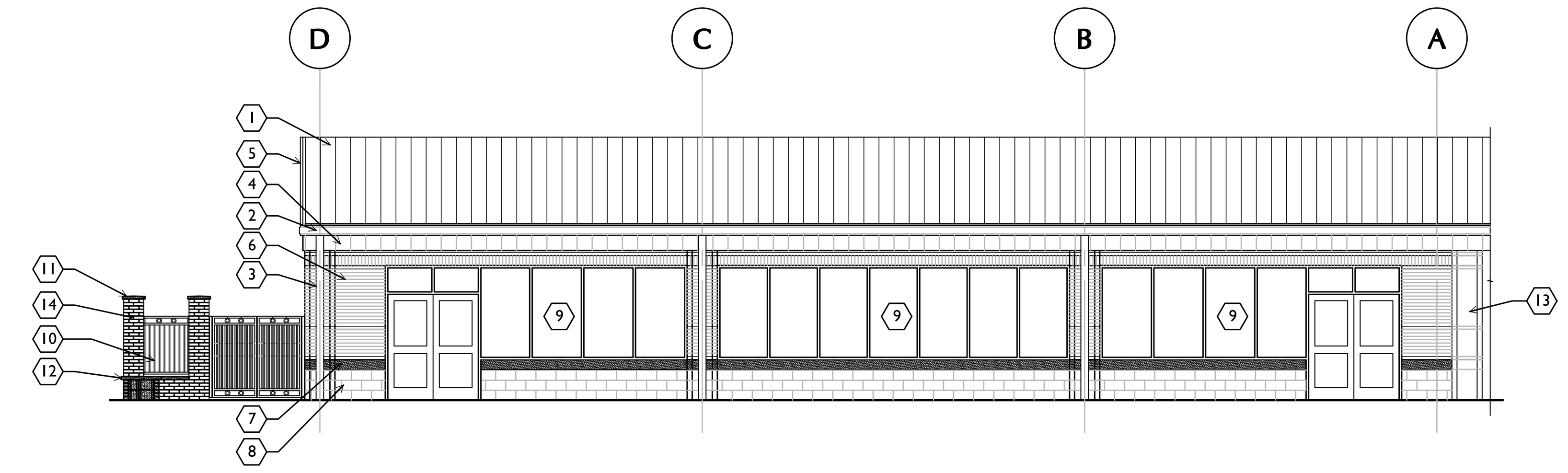
SHEET TITLE
ROOF FRAMING SECTIONS & DETAILS

DATE 02/22/2023

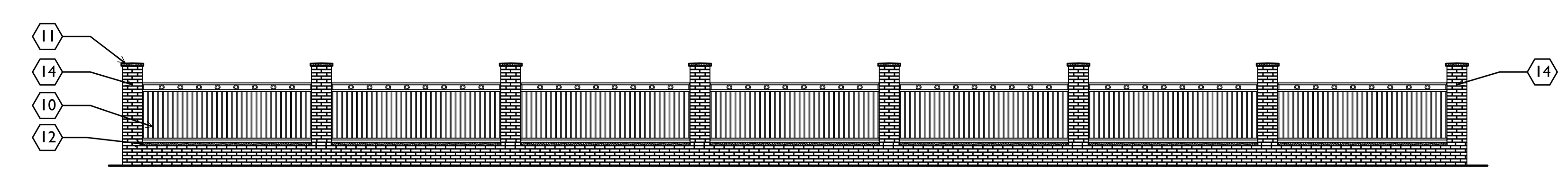
SHEET NUMBER
S301
202147.007



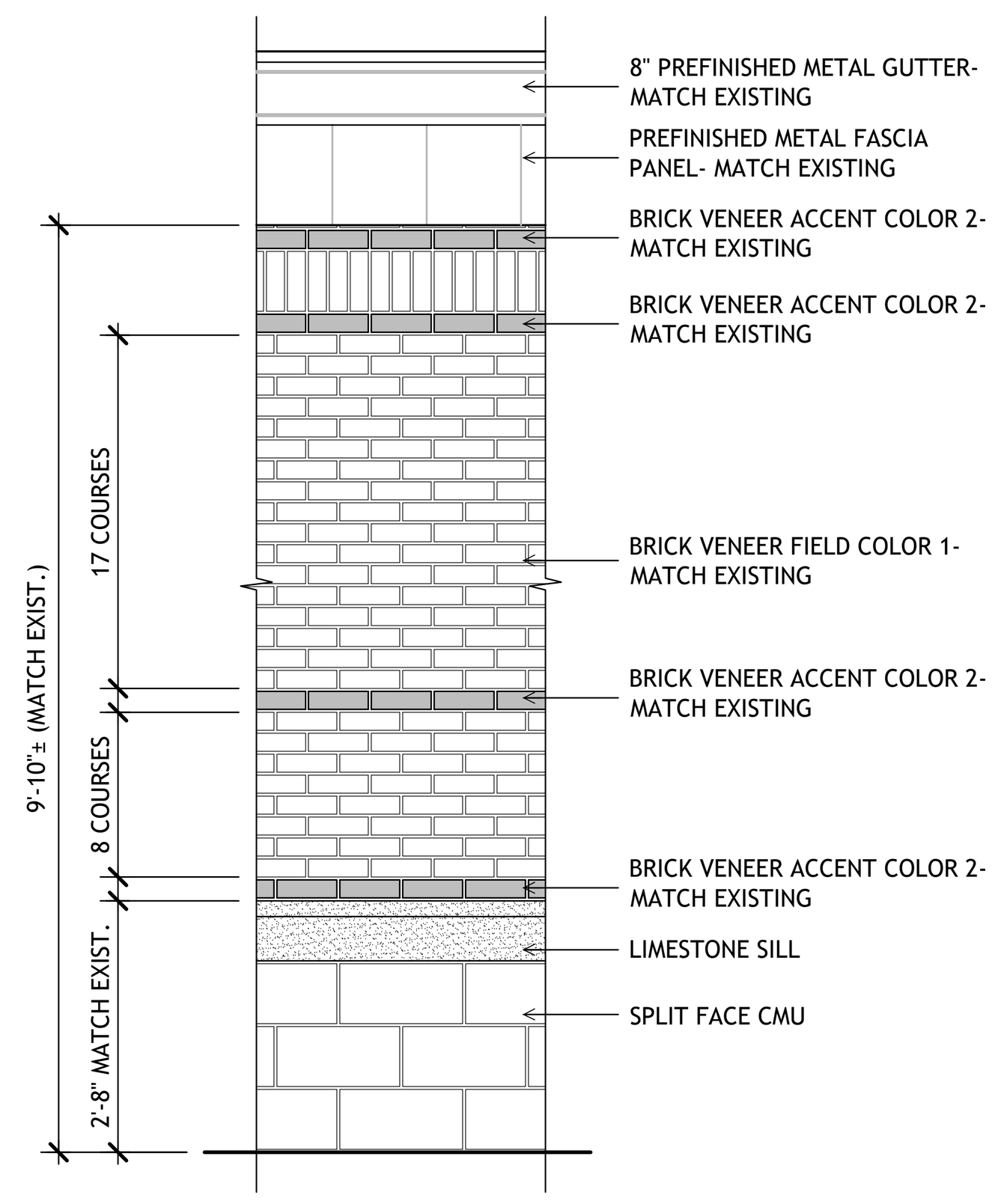
5
A501
Enlarged Decorative Fence Detail
full size plot scale: 3/4"=1'-0"
0 8" 1'-4"



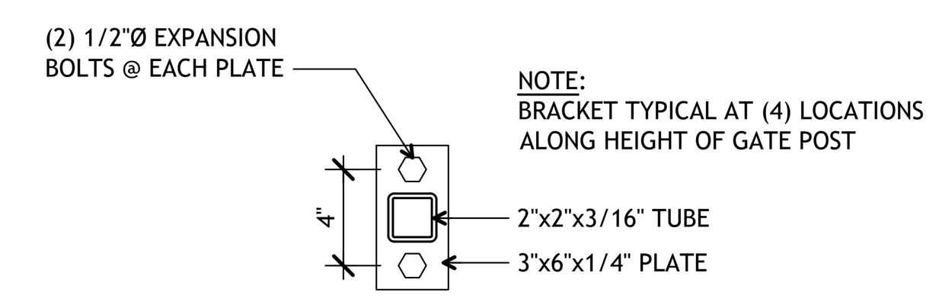
1
A501
East Elevation
full size plot scale: 1/8"=1'-0"
0 4'-0" 8'-0"



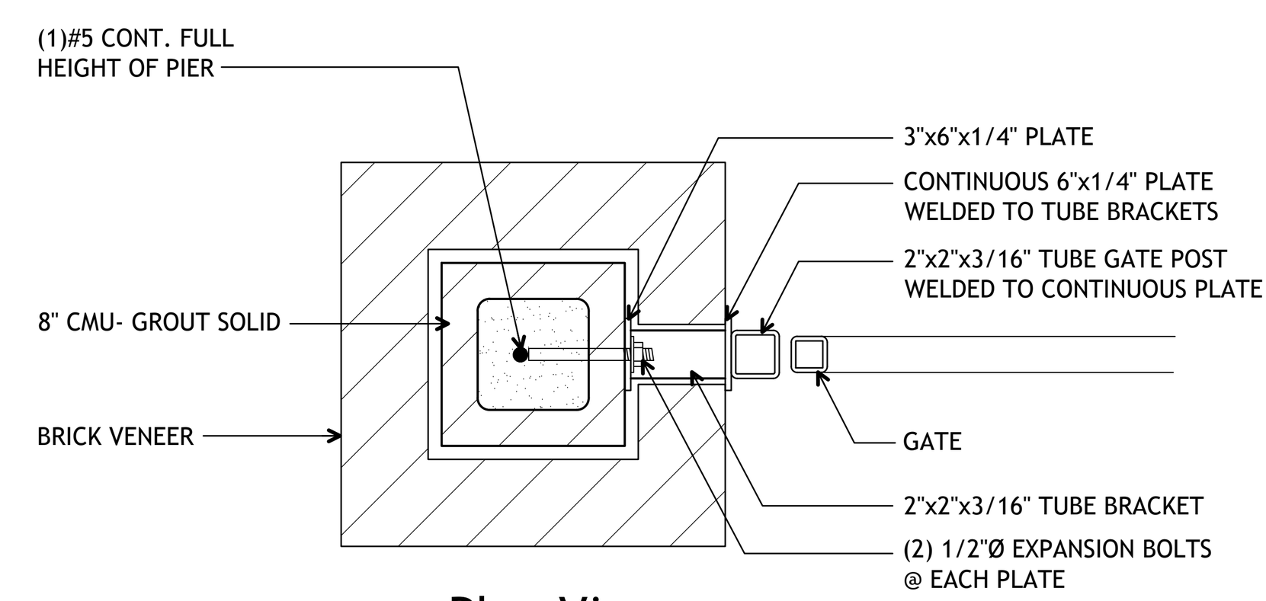
2
A501
East Elevation
full size plot scale: 1/8"=1'-0"
0 4'-0" 8'-0"



6
A501
Enlarged Brick Pattern Detail
full size plot scale: 1/2"=1'-0"
0 1'-0" 2'-0"

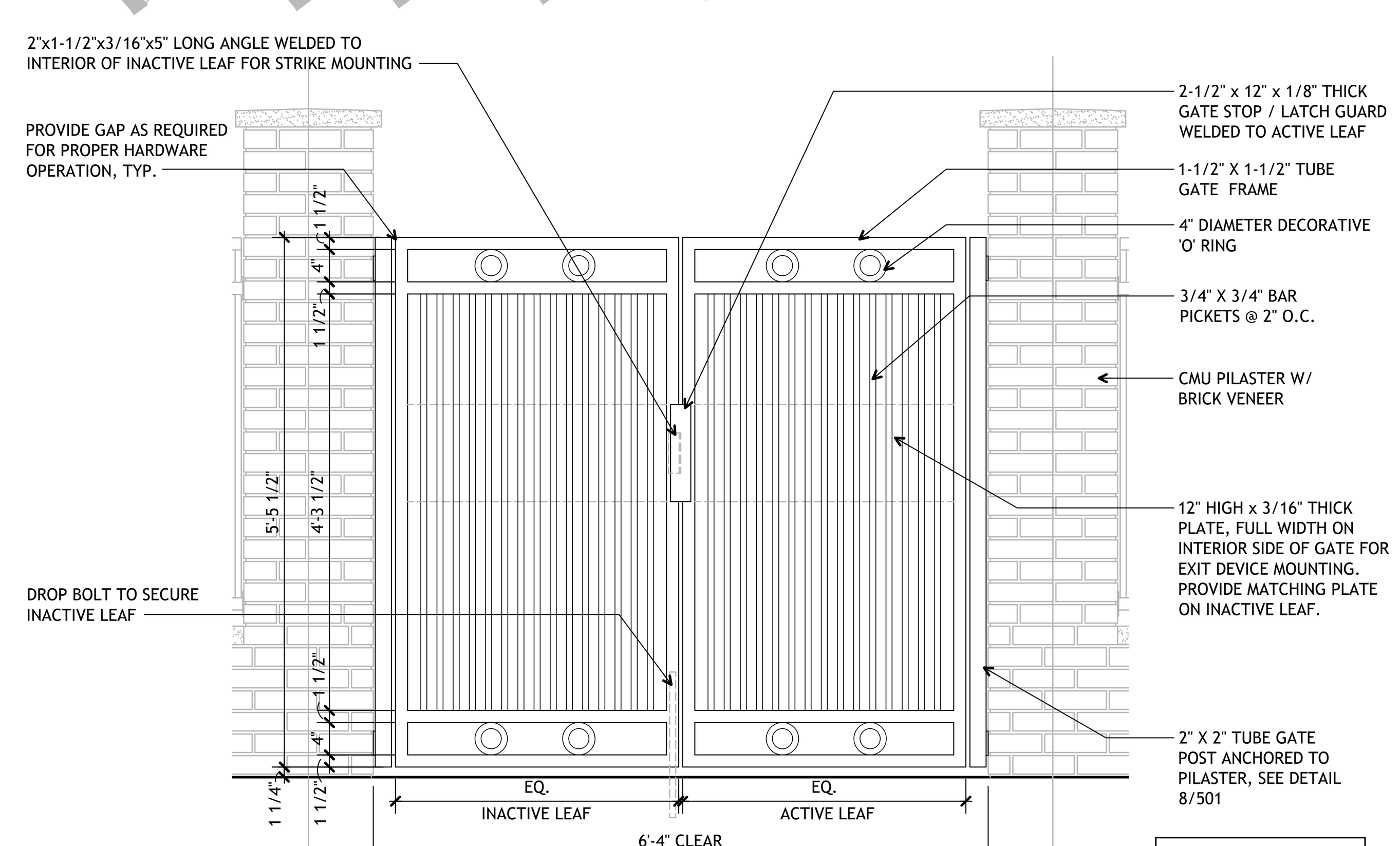


Elevation View



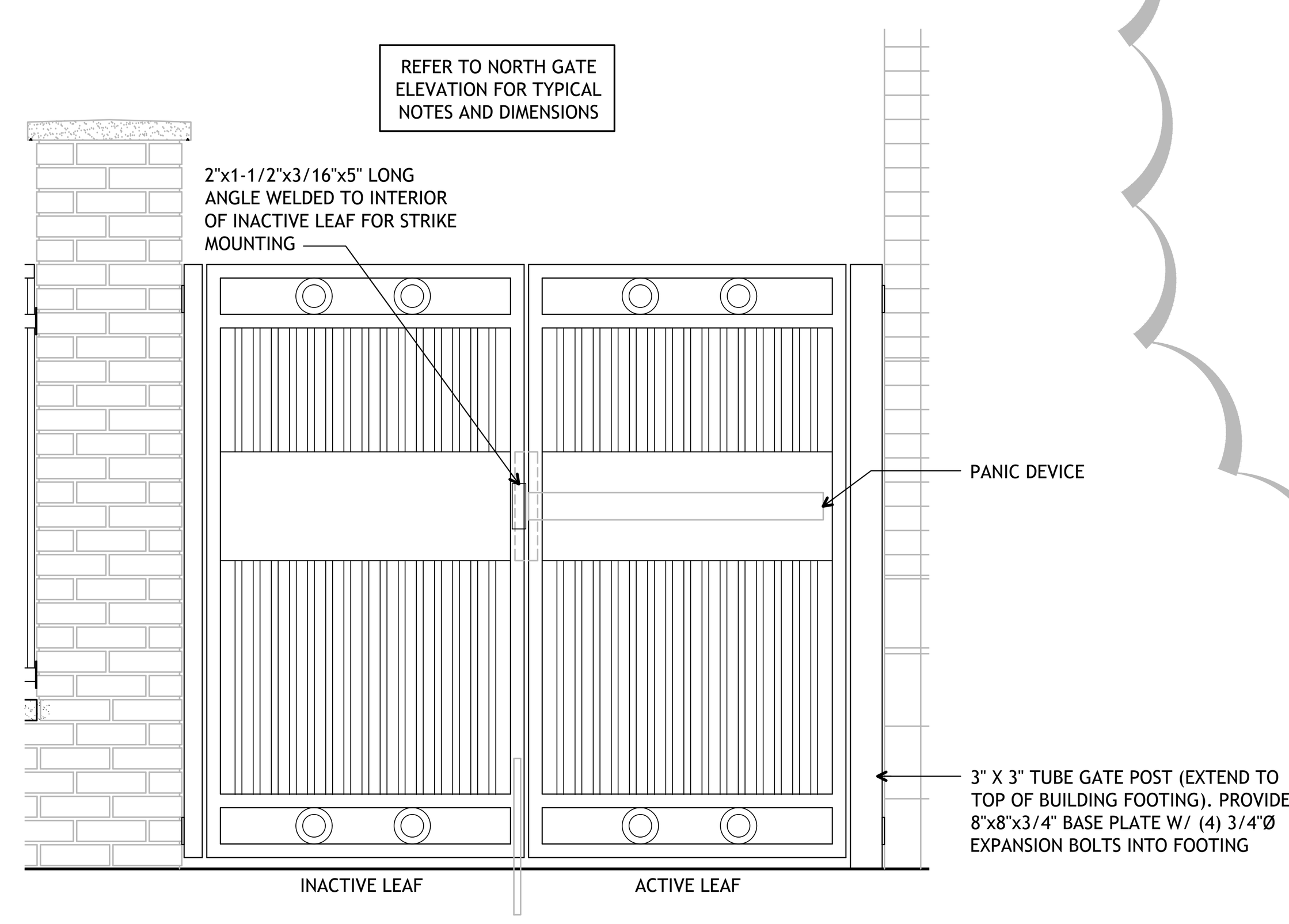
Plan View

8
A501
Gate Support Detail
full size plot scale: 1-1/2"=1'-0"
0 4" 8"



ALL GATE COMPONENTS TO HAVE BLACK POWDER COAT FINISH.

North Gate (Exterior View)



West Gate (Interior View)

7
A501
Enlarged Decorative Gate Detail
full size plot scale: 3/4"=1'-0"
0 8" 1'-4"

CONTRACTOR'S OPTION:
GATES CAN BE CONSTRUCTED USING EITHER STEEL OR ALUMINUM COMPONENTS. APPROPRIATE SEPARATION SHALL BE PROVIDED BETWEEN STEEL AND ALUMINUM TO MINIMIZE GALVANIC ACTION. COORDINATE WITH ARCHITECT DURING SHOP DRAWING PROCESS.

Gate Hardware
- CONTROLLED CLOSING HINGES (EACH LEAF): NATIONWIDE INDUSTRIES, NTLS-AD-BK (ONE ACTIVE, ONE DUMMY)
- PANIC DEVICE (ACTIVE LEAF): DETEX 10xW WEATHERIZED RIM EXIT DEVICE, BHMA FUNCTION 01 (EXIT ONLY, NO TRIM), CYLINDER DOGGING (CD), 99 SURFACE STRIKE, ANGLED END CAPS, 626 FINISH
- KEY LOCKABLE DROP BOLT (INACTIVE LEAF):LOCINOX MODEL KEYDROP, RAL 9005 FINISH
- OFF-CENTERED GROUND STOP AND CATCH (INACTIVE LEAF): LOCINOX MODEL OGS

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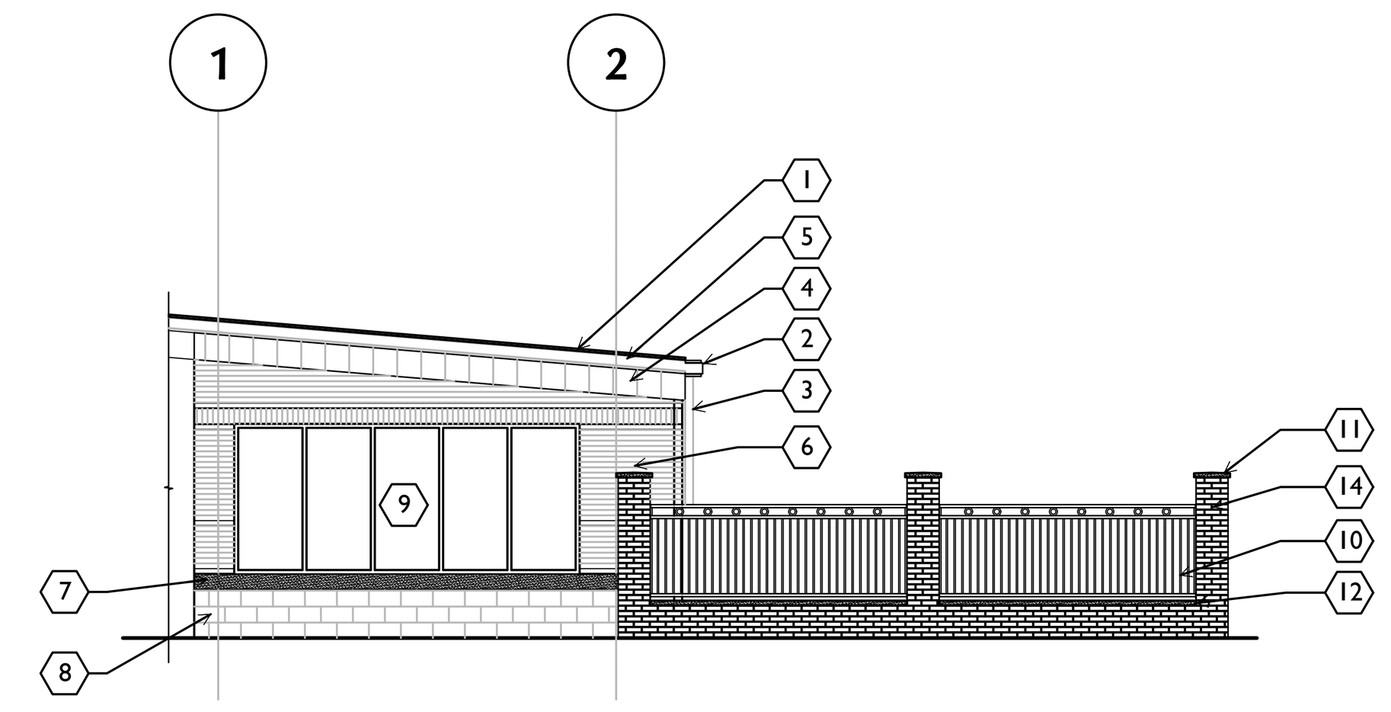
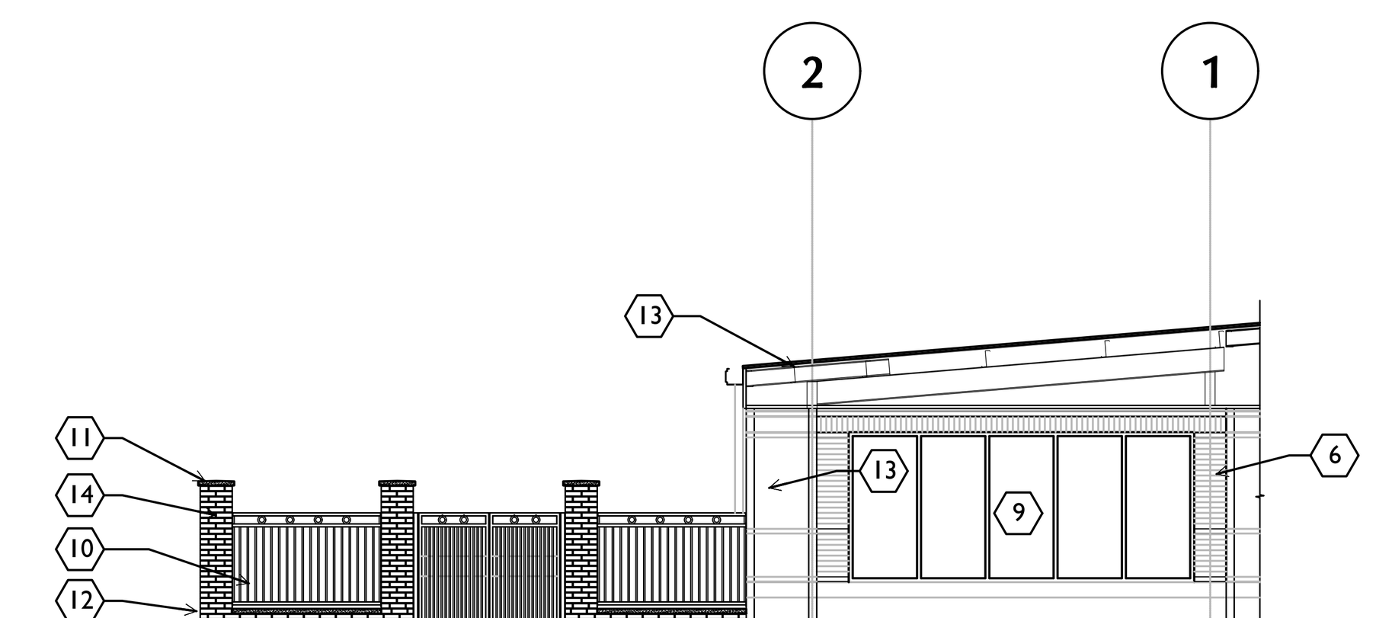


3
A501
South Elevation
full size plot scale: 1/8"=1'-0"
0 4'-0" 8'-0"



4
A501
North Elevation
full size plot scale: 1/8"=1'-0"
0 4'-0" 8'-0"

Elevation Notes
1. STANDING SEAM METAL ROOF SYSTEM
2. 8" PREFINISHED METAL GUTTER
3. 6" PREFINISHED METAL DOWNSPOUT
4. PREFINISHED METAL FASCIA PANEL
5. PREFINISHED METAL RAKE TRIM
6. BRICK VENEER- COLOR 1 FIELD BRICK W/COLOR 2 ACCENT BRICK. SEE ENLARGED ELEVATION FOR ADD'L. INFO.
7. LIMESTONE SILL
8. SPLIT FACE CMU VENEER
9. ALUM. STOREFRONT SYSTEM W/THERMAL BREAK
10. DECORATIVE STEEL FENCE- SEE DETAIL 6/A501
11. LIMESTONE CAP
12. LIMESTONE SEAT CAP
13. EXISTING BUILDING CONSTRUCTION
14. BRICK VENEER FIELD COLOR 1
15. STEEL GATEWAY SIGN REFER TO SPECIFICATIONS FOR ADD'L. INFO.
16. PAINTED STEEL CANOPY FAME- SEE SPECIFICATIONS
17. INSULATED TRANSLUCENT PANEL/ FRAMING SYSTEM- SEE SPECIFICATIONS

TowerPinkster
ARCHITECTURE • ENGINEERING • INTERIORS
630 Walnut St.
Jeffersonville, IN 47130
812.282.9554 PHONE
242 East Kalamazoo Avenue, Suite 100
Kalamazoo, Michigan 49007-5828
269.343.6133 PHONE 269.343.6633 FAX
TOWERPINKSTER.COM

HAL E. KOVERT REGISTERED NO. AR00033675 STATE OF INDIANA ARCHITECT

ISSUED FOR	DATE
Bidding Only	Issue Date 02/22/2023
>	
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Revisions
1. 03/21/2023 ADDENDUM NO. 2
2
3
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PROJECT TITLE
HENRYVILLE HIGH SCHOOL
2023 HENRYVILLE FLOORING REPLACEMENT PHASE 2 & CAFETERIA EXPANSION

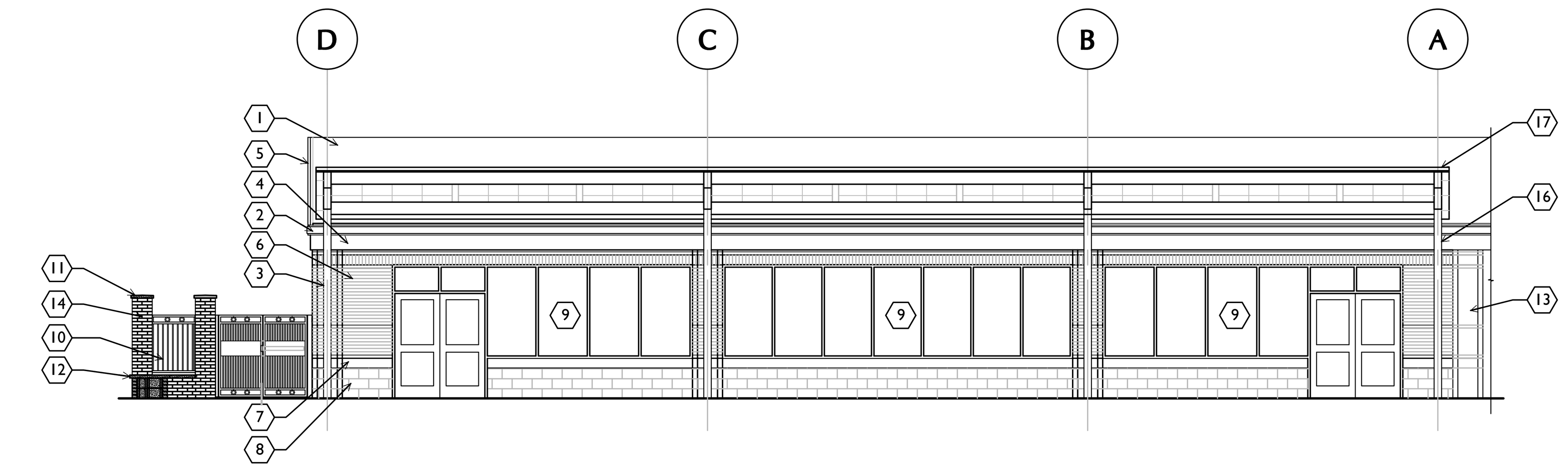
OWNER
BORDEN - HENRYVILLE SCHOOL CORPORATION
213 FERGUSON STREET
HENRYVILLE, INDIANA 47126

Drawn JK
Checked By HG

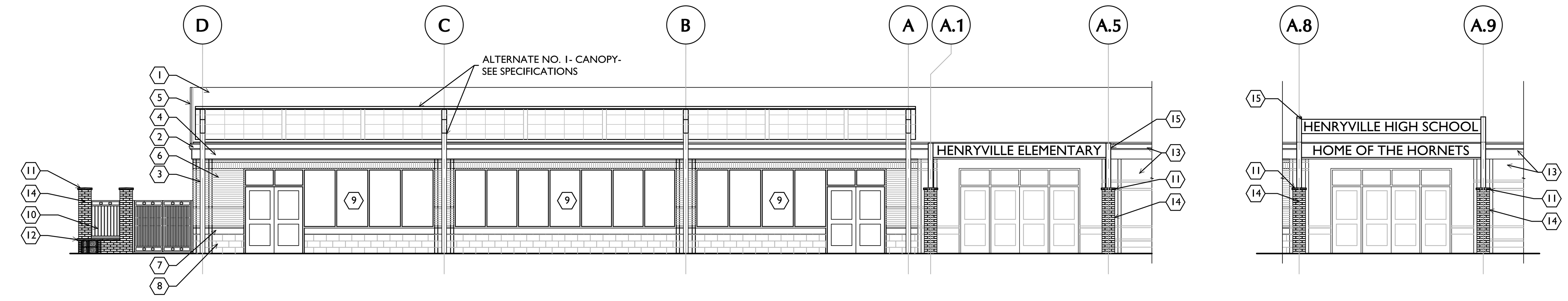
SHEET TITLE
BUILDING ELEVATIONS

DATE
02/22/2023

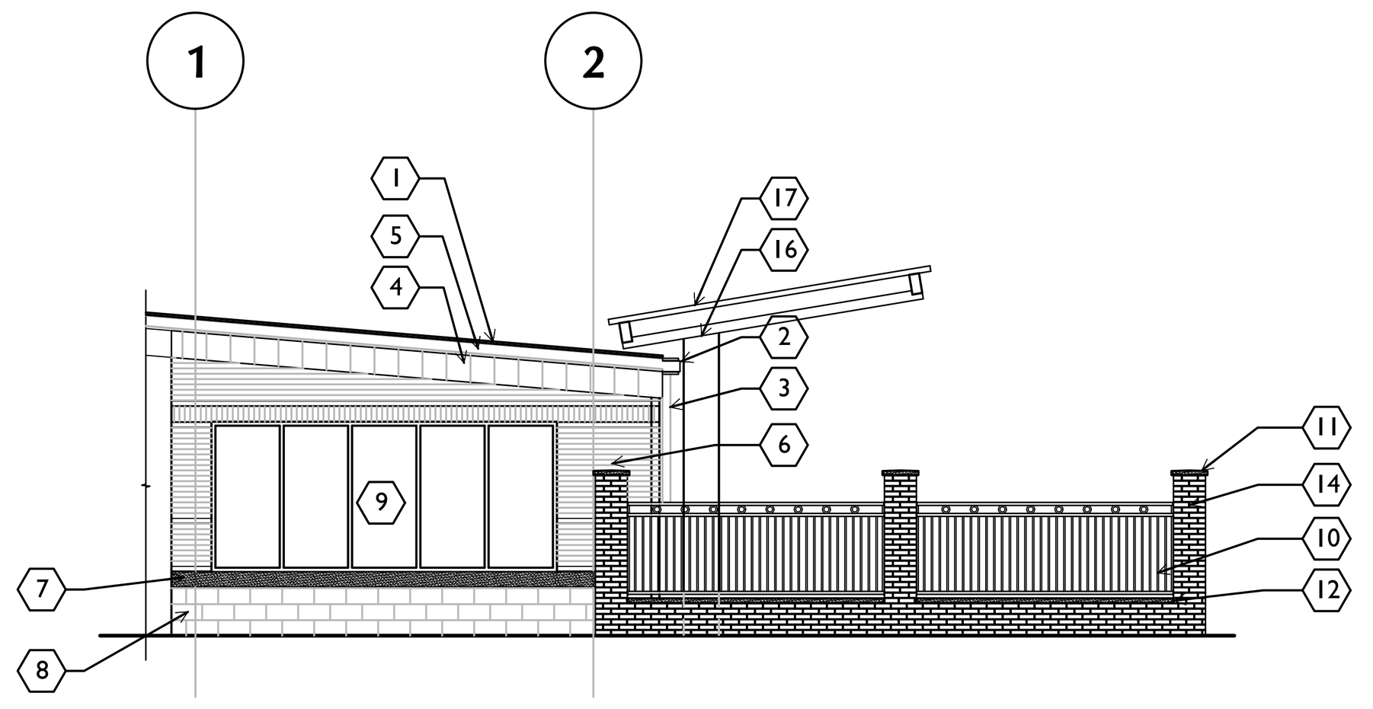
SHEET NUMBER
A501
202147.007



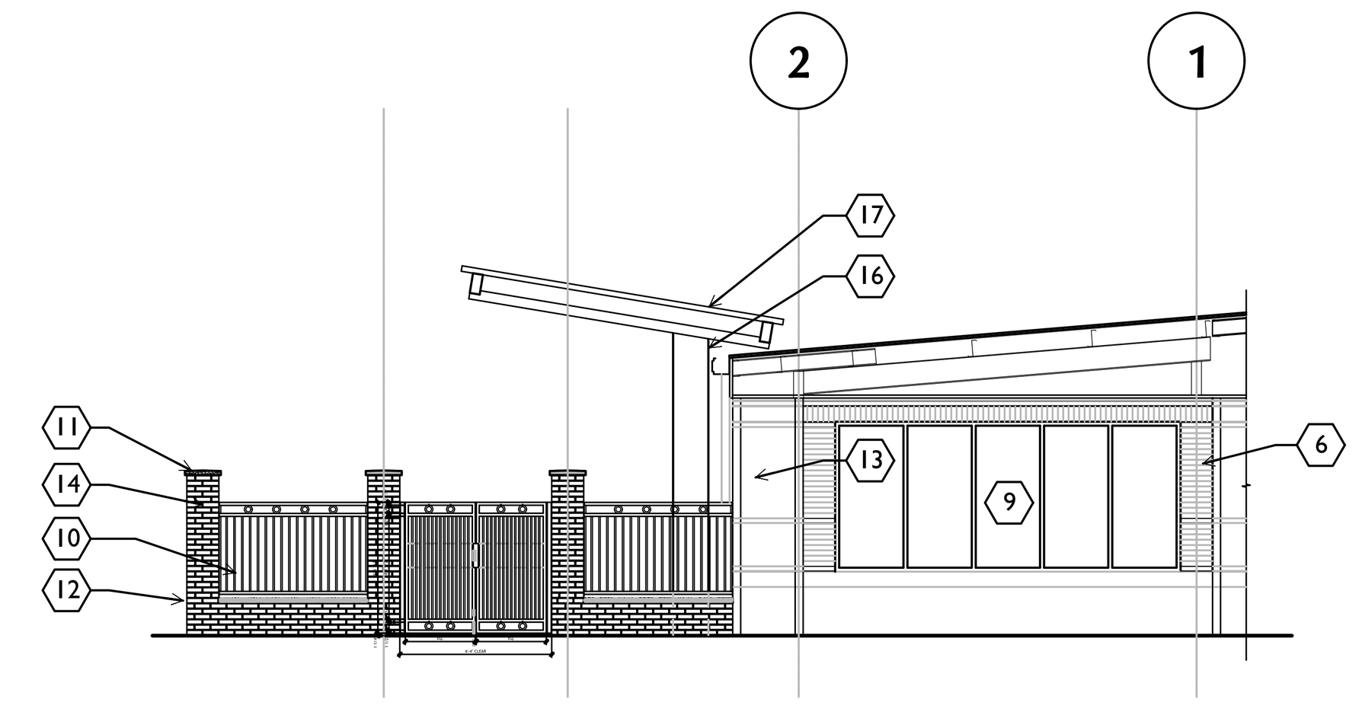
1 A502 **Alternate No. 1 East Elevation**
full size plot scale: 1/8"=1'-0" 0 4'-0" 8'-0"



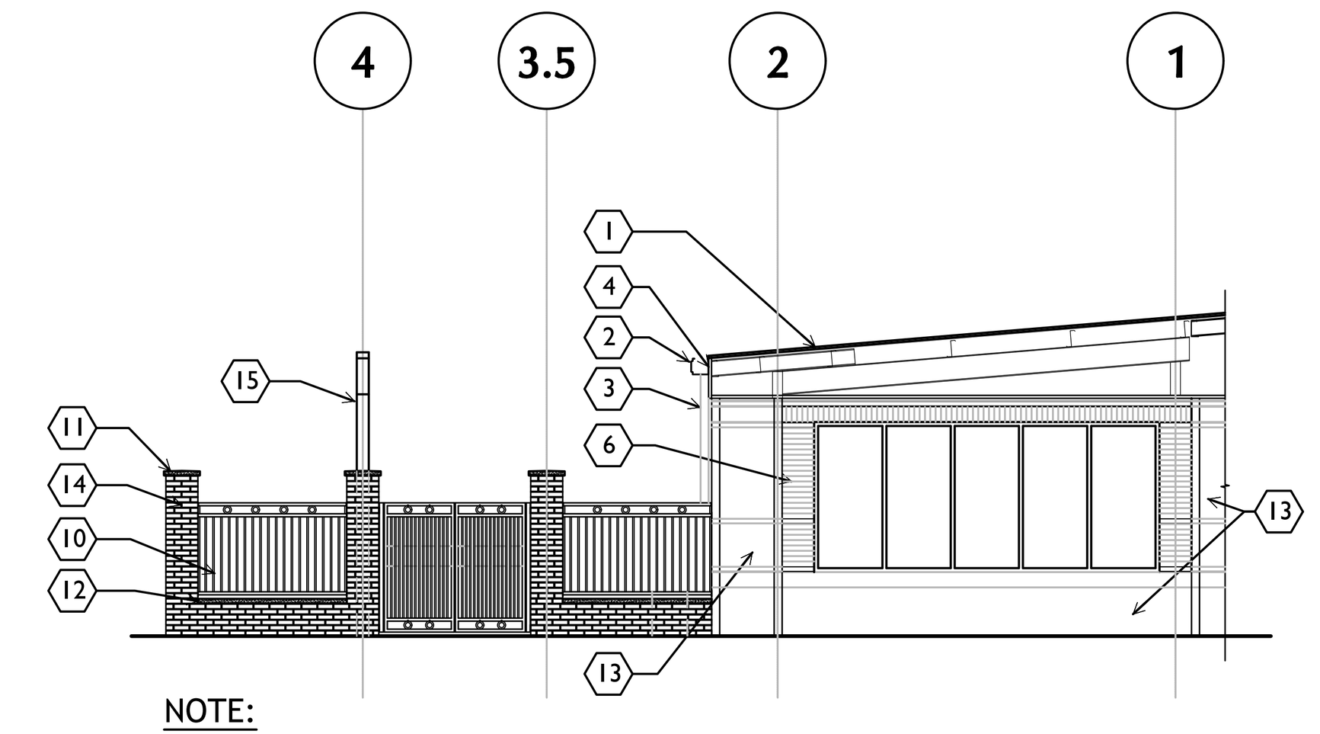
4 A502 **Alternate No. 2A East Elevation**
full size plot scale: 1/8"=1'-0" 0 4'-0" 8'-0"



2 A502 **Alternate No. 1 South Elevation**
full size plot scale: 1/8"=1'-0" 0 4'-0" 8'-0"

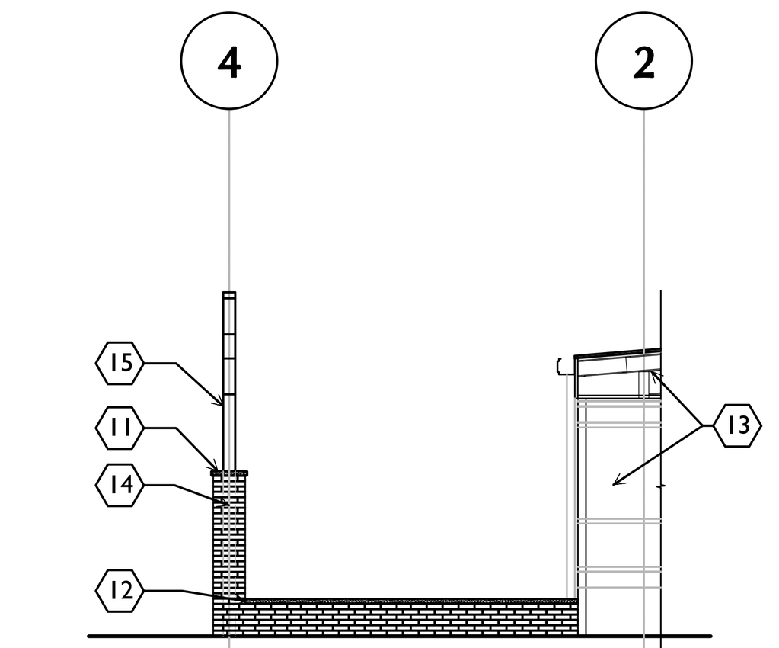


3 A502 **Alternate No. 1 North Elevation**
full size plot scale: 1/8"=1'-0" 0 4'-0" 8'-0"

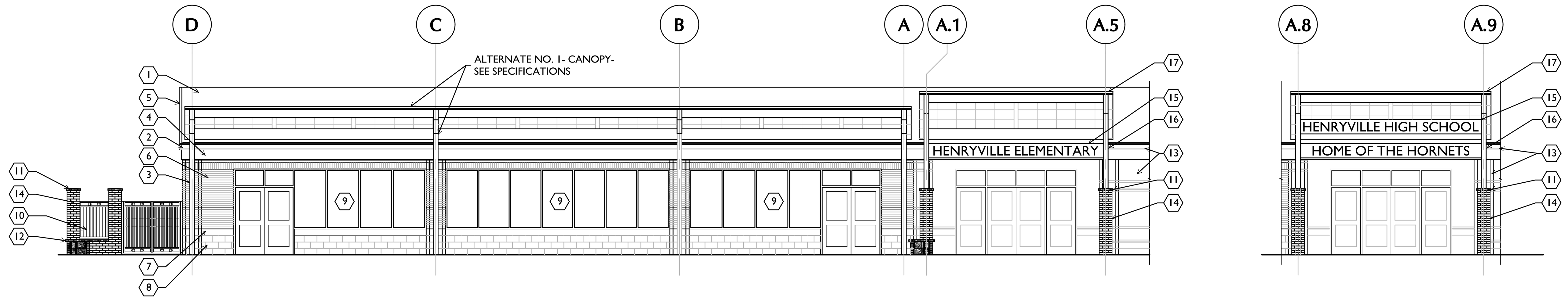


NOTE:
ALT. NO 1 CANOPY NOT SHOWN

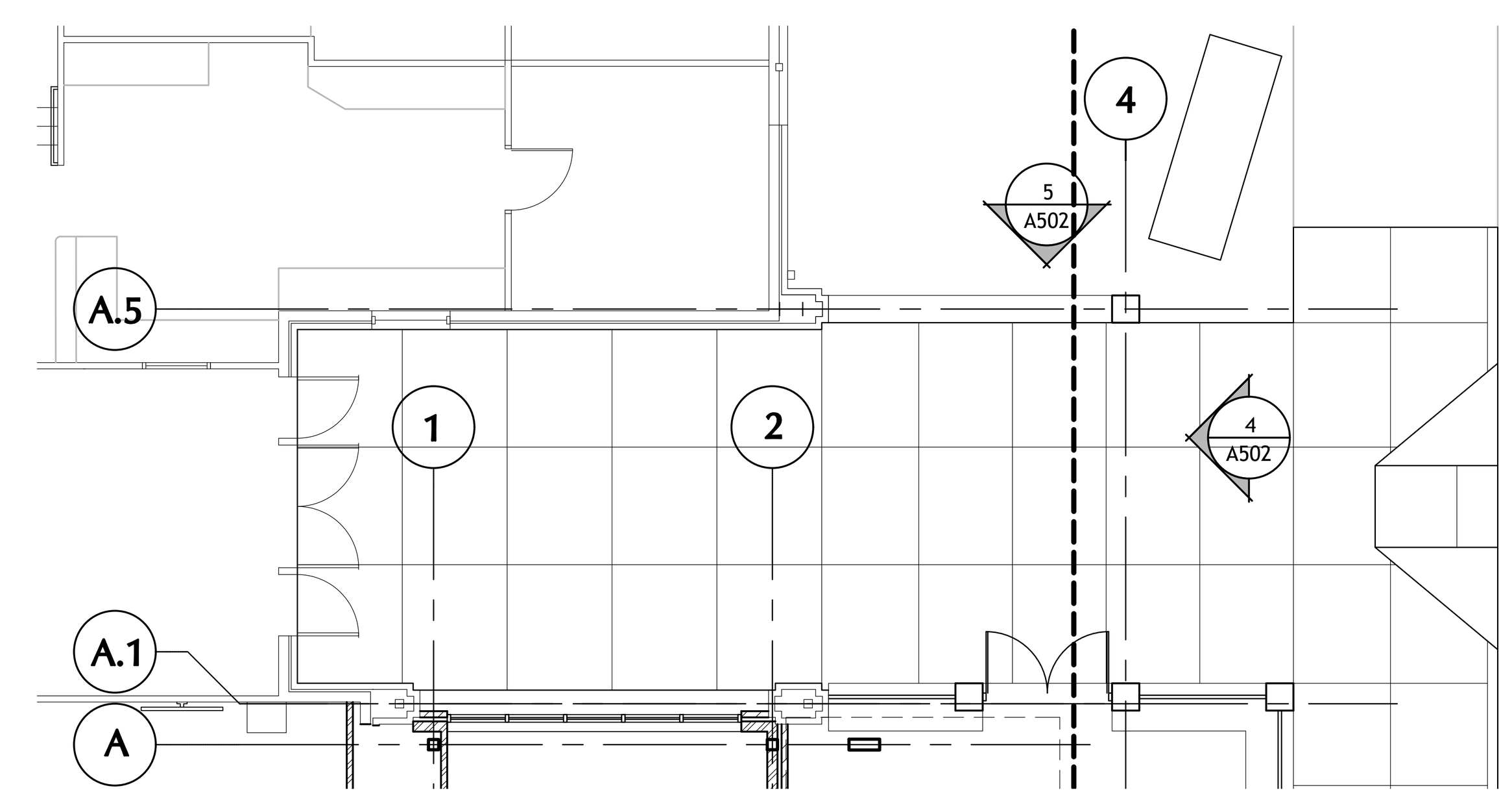
5 A502 **Alternate No. 2A Elementary North Elevation**
full size plot scale: 1/8"=1'-0" 0 4'-0" 8'-0"



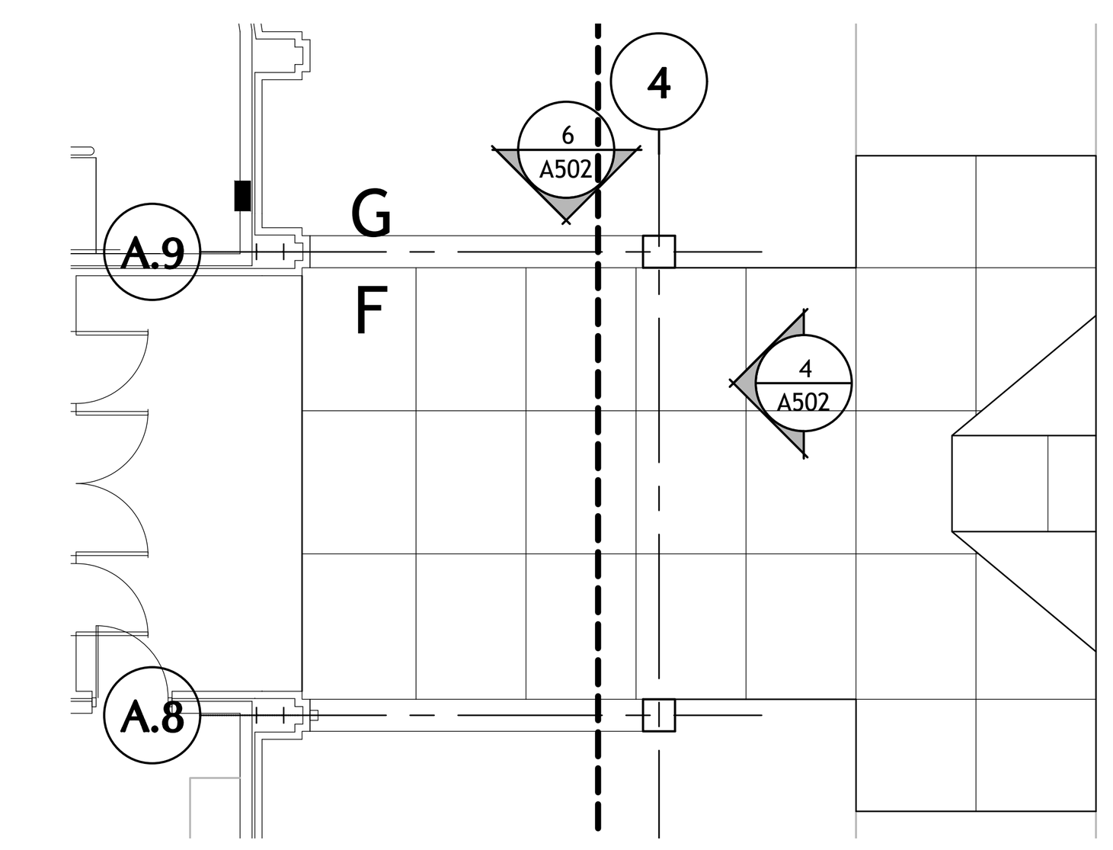
6 A502 **Alternate No. 2A High School North Elevation**
full size plot scale: 1/8"=1'-0" 0 4'-0" 8'-0"



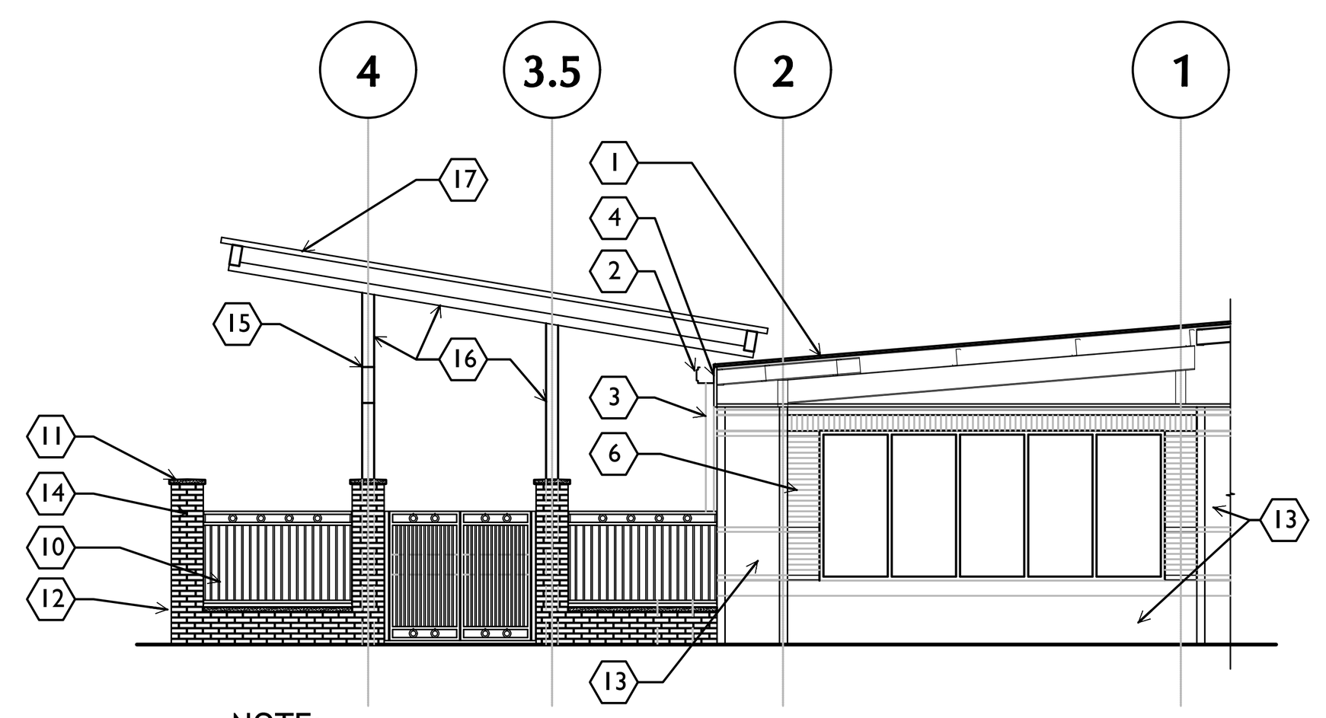
7 A502 **Alternate No. 2B East Elevation**
full size plot scale: 1/8"=1'-0" 0 4'-0" 8'-0"



10 A502 **Alternate No. 2A Elementary Floor Plan**
full size plot scale: 1/8"=1'-0" 0 4'-0" 8'-0"

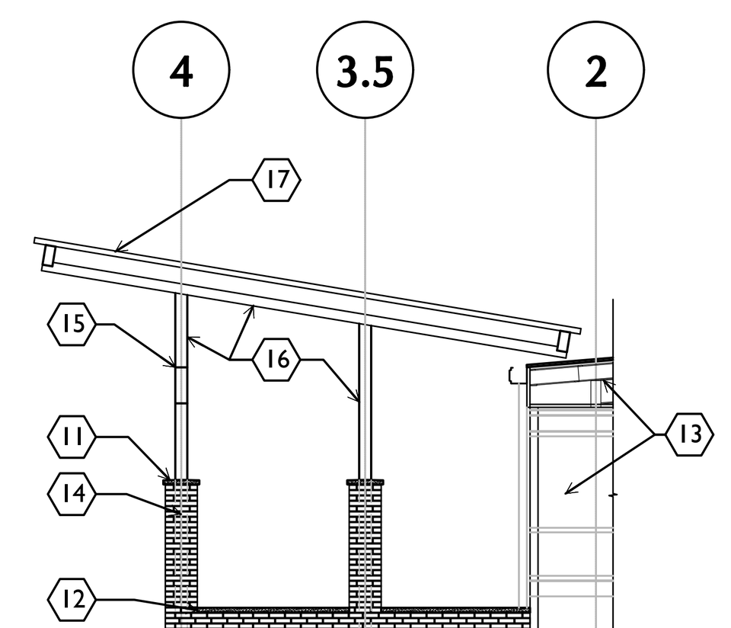


11 A502 **Alternate No. 2A High School Floor Plan**
full size plot scale: 1/8"=1'-0" 0 4'-0" 8'-0"



NOTE:
ALT. NO 1 CANOPY NOT SHOWN

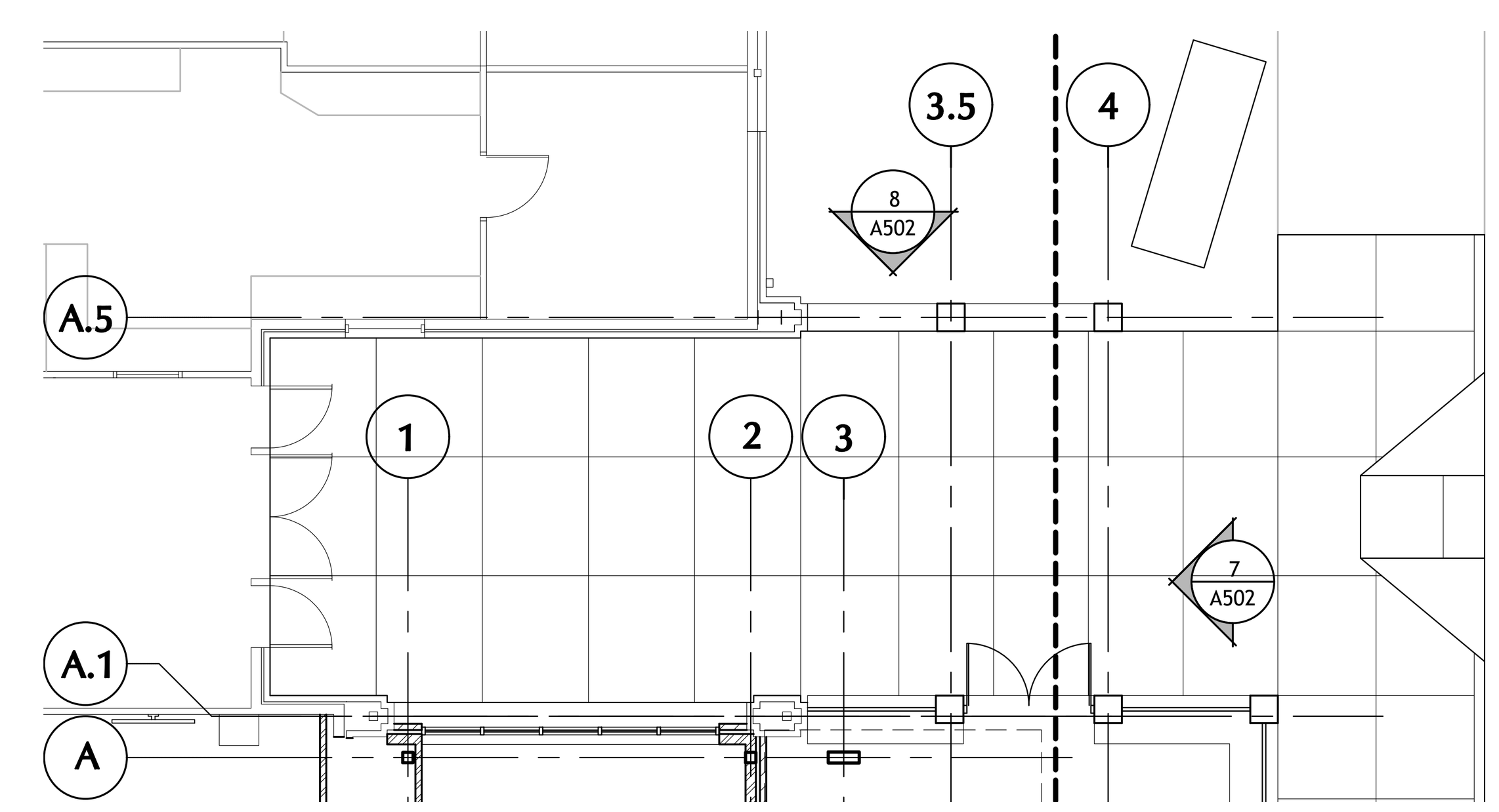
8 A502 **Alternate No. 2B Elementary North Elevation**
full size plot scale: 1/8"=1'-0" 0 4'-0" 8'-0"



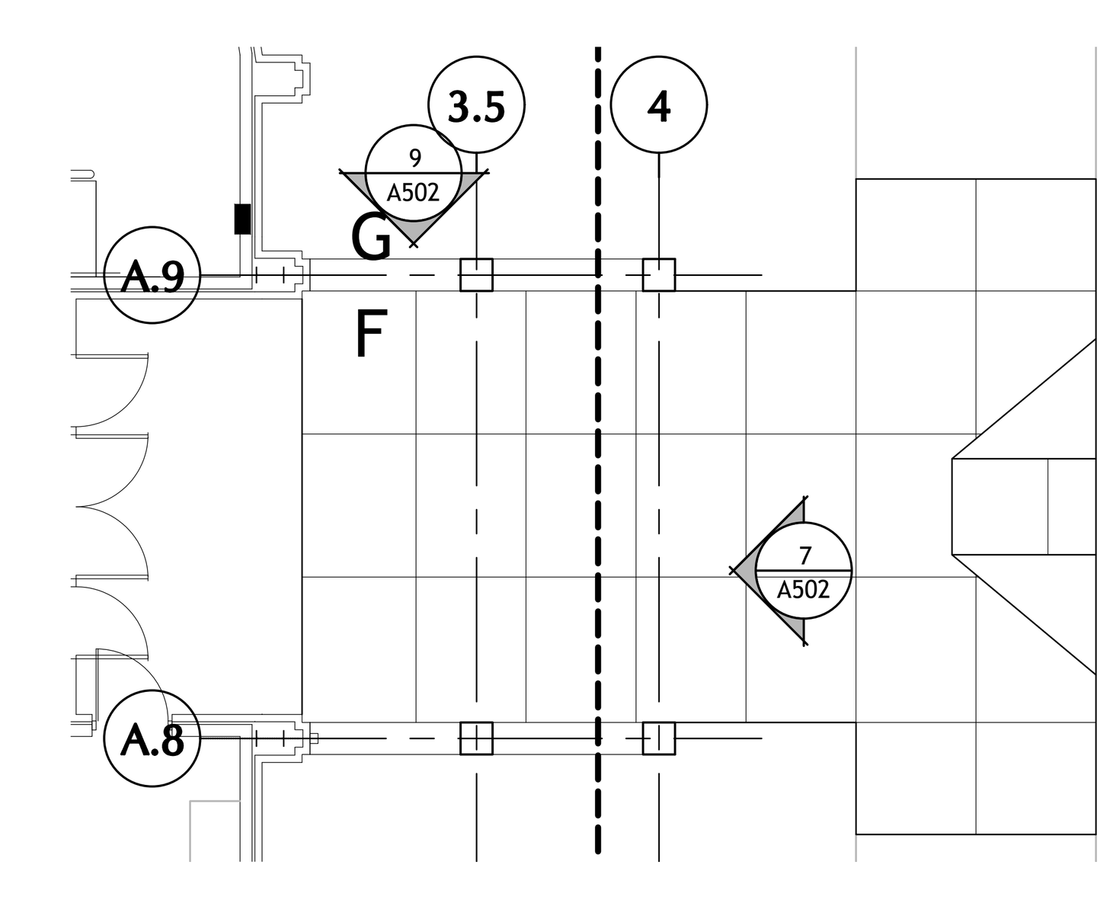
9 A502 **Alternate No. 2B High School North Elevation**
full size plot scale: 1/8"=1'-0" 0 4'-0" 8'-0"

Elevation Notes

1. STANDING SEAM METAL ROOF SYSTEM
2. 8" PREFINISHED METAL GUTTER
3. 6" PREFINISHED METAL DOWNSPOUT
4. PREFINISHED METAL FASCIA PANEL
5. PREFINISHED METAL RAKE TRIM
6. BRICK VENEER- COLOR 1 FIELD BRICK W/COLOR 2 ACCENT BRICK. SEE ENLARGED ELEVATION FOR ADD'L. INFO.
7. LIMESTONE SILL
8. SPLIT FACE CMU VENEER
9. ALUM. STOREFRONT SYSTEM W/THERMAL BREAK
10. DECORATIVE STEEL FENCE- SEE DETAIL 6/A501
11. LIMESTONE CAP
12. LIMESTONE SEAT CAP
13. EXISTING BUILDING CONSTRUCTION
14. BRICK VENEER FIELD COLOR 1
15. STEEL GATEWAY SIGN REFER TO SPECIFICATIONS FOR ADD'L. INFO.
16. PAINTED STEEL CANOPY FAME- SEE SPECIFICATIONS
17. INSULATED TRANSLUCENT PANEL/ FRAMING SYSTEM- SEE SPECIFICATIONS



12 A502 **Alternate No. 2B Elementary Floor Plan**
full size plot scale: 1/8"=1'-0" 0 4'-0" 8'-0"



13 A502 **Alternate No. 2B High School Floor Plan**
full size plot scale: 1/8"=1'-0" 0 4'-0" 8'-0"

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ISSUED FOR	DATE
Bidding Only	Issue Date 03/21/2023
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Revisions
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PROJECT TITLE
HENRYVILLE HIGH SCHOOL
2023 HENRYVILLE FLOORING REPLACEMENT PHASE 2 & CAFETERIA EXPANSION

OWNER
BORDEN - HENRYVILLE SCHOOL CORPORATION
213 FERGUSON STREET
HENRYVILLE, INDIANA 47126

SHEET TITLE
ALTERNATE BUILDING PLANS & ELEVATIONS

Drawn JK
Checked By HG

DATE
03/21/2023

SHEET NUMBER
A502
202147.007

MECHANICAL LEGEND

Symbol	Description
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
TYP	TYPICAL
NTS	NOT TO SCALE
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
	CONNECT TO EXISTING
	TAGGED NOTE
	DEMOLISH TO THIS POINT
	DEMOLISH TO THIS POINT AND CAP
E(NAME)	EXISTING PIPING (THIN SOLID LINE)
E(NAME)	REMOVE EXISTING PIPING (THIN BROKEN LINE)
	MECHANICAL EQUIPMENT DESIGNATOR
	INDICATES AIR DISTRIBUTION DEVICE SPECIFICATION (L=LOUVER, T=TRANSFER GRILLE, S=SUPPLY DIFFUSER OR REGISTER, R=RETURN GRILLE OR REGISTER, E=EXHAUST GRILLE OR REGISTER)
T	THERMOSTAT
PS	DUCT-MOUNTED STATIC PRESSURE SENSOR
DS	DUCT-MOUNTED SMOKE DETECTOR
FS	FLOW SWITCH – MCDONNEL FS8W
	DIAL THERMOMETER
	DUCTWORK DEMOLITION
	EXISTING DUCTWORK TO REMAIN
20X12 SA	SUPPLY AIR DUCT – INSIDE DIMENSION – 20"HORZ.X12"VERT. (TURNED UP/DOWN)
20X12 RA	RETURN AIR DUCT – INSIDE DIMENSION – (TURNED UP/DOWN)
20X12 EA	EXHAUST AIR DUCT – INSIDE DIMENSION – (TURNED UP/DOWN)
20X12 OA	OUTSIDE AIR DUCT – INSIDE DIMENSION – (TURNED UP/DOWN)
20X12 REA	RELIEF AIR DUCT – INSIDE DIMENSION – (TURNED UP/DOWN)
	FLEXIBLE DUCT
AD	ACCESS DOOR IN BOTTOM OF DUCT
AD	ACCESS DOOR IN SIDE OF DUCT
M	OPPOSED BLADE DAMPER (MOTORIZED)
	VOLUME DAMPER (MANUAL)
FD	FIRE DAMPER
	TURNING VANES
	DEFLECTOR (AT REGISTER OR BRANCH)
STORM	STORM PIPING
NG	NATURAL GAS PIPING

GAS RADIANT HEATERS

SYMBOL	RH-1A THRU C
MANUF. & MODEL	DETROIT RADIANT DST SERIES
TYPE	2-STAGE LOW INTENSITY GAS-FIRED INFRARED TUBE HEATER
HEATING INPUT	60 MBH
HEATER LENGTH	119 INCHES
ELECTRICAL	120 / 1 / 60
MAX. AMP	5.2

REMARKS:

1. PROVIDE WITH 120V RELAY AND WALL SWITCH FOR MULTIPLE UNITS, MOUTING CHAIN SET, GAS BALL VALVE, ROOF VENT CAP AND BELOWER ENCLOSURER.

ADDENDUM 2
03.21.23

PACKAGED ROOFTOP UNIT

SYMBOL	RTU-01
MANUF. & MODEL	TRANE YHJ1204SA
TYPE	VARIABLE SPEED ROOFTOP WITH POWER EXHAUST
SUPPLY FAN CFM / ESP	4,000 / 1.0"
MINIMUM OUTSIDE AIR CFM	400
COOLING CAPACITY (AMBIENT: 95°F / ENTERING AIR TEMPERATURE: 80°F/67°F)	
NET TOTAL / SENS. (MBH)	124.4 / 96.9
# OF COMPRESSORS / % CAPACITY	2 / 28/72/100 (STAGE 1-3)
EER / IEER	11.4 / 15.1
NATURAL GAS HEAT	
GAS HEATING INPUT / OUTPUT (MBH)	150.0 / 121.5
# OF BURNERS / STAGES	4 / 2
ELECTRICAL CHAR.	
V / φ / Hz	460 / 3 / 60
MCA / MAX FUSE	32 / 40
SINGLE POINT CONNECTION	YES

REMARKS:

1. PROVIDE UNIT WITH:
   - SINGLE POINT POWER CONNECTION WITH FACTORY MOUNTED NON-FUSED DISCONNECT AND CONVENIENCE OUTLET.
   - VARIABLE SPEED FAN FOR SINGLE ZONE VAV OPERATION.
   - CO2 SENSOR FOR DEMAND CONTROL VENTILATION.
   - PROVIDE WITH RETURN AIR SMOKE DETECTOR.
   - PROVIDE WITH HOT-GAS REHEAT FOR HUMIDITY CONTROL (DEHUMIDIFICATION OPTION).
   - 2" MERV 13 FILTERS. PROVIDE WITH FOUR (4) SETS OF REPLACEMENT FILTERS.
   - CONDENSATE OVERFLOW SWITCH
   - ENTHALPY ECONOMIZER WITH ULTRA LOW LEAK DAMPERS AND EXHAUST FAN.
   - FACTORY STARTUP. REFER TO SPECIFICATIONS.
   - 1 YEARS PARTS AND LABOR WARRANTY ON ENTIRE UNIT FROM DATE OF SUBSTANTIAL COMPLETION OR 12 MONTHS FROM STARTUP, WHICHEVER OCCURS FIRST.
   - PROVIDE WITH ROOF CURB. COORDINATE WITH ROOF TYPE.
   - PROVIDE WITH BACNET PROTOCOL INTERCONNECTIVITY.

REGISTERS, GRILLES, AND DIFFUSERS

SYMBOL	MANUFACTUER & MODEL	MATERIAL & TYPE	CFM RANGE	INLET DUCT SIZE	FACE SIZE	NECK SIZE
S-1	TITUS TMS AA	EXTRUDED ALUMINUM SQUARE THREE CONE	325	10ø	24X24	10ø
R-1	TITUS 50F	EXTRUDED ALUMINUM FRAME W/ ½" CUBE CORE	1200	14ø	24X24	24X24

REMARKS (APPLICABLE TO ALL CEILING DEVICES):

- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR LAY-IN, SURFACE MOUNTED OR EXPOSED DEVICE. PROVIDE FILLER PANELS AS REQUIRED. ALL PANELS TO BE 24"X24" ALUMINUM PANEL, COLOR TO MATCH CEILING.
- ALL CEILING DEVICE COLOR TO MATCH CEILING.
- PROVIDE MOLDED INSULATION BLANKET FOR ALL SUPPLY GRILLES.
- PROVIDE WITH ROUND DUCT TRANSITION AS REQUIRED.

TRENCH DRAIN SPECIFICATION (TD-1)

ZURN Z886 CHANNELS ARE 80' LONG, 6-1/4' WIDE REVEAL AND HAVE A 4' [102MM] THROAT. MODULAR CHANNEL SECTIONS ARE MADE OF 0% WATER ABSORBENT HIGH DENSITY POLYETHYLENE (HDPE). CHANNELS HAVE A POSITIVE MECHANICAL CONNECTION BETWEEN CHANNEL SECTIONS THAT WILL NOT SEPARATE DURING THE INSTALLATION AND MECHANICALLY LOCK INTO THE CONCRETE SURROUND A MINIMUM EVERY 10'. CHANNELS WEIGHT LESS THAN 2.31 LBS. PER LINEAR FOOT, HAVE A SMOOTH, 1-1/2' RADIUSED SELF CLEANING BOTTOM WITH A MANNING'S COEFCIENT OF .009 AND .75% OR NEUTRAL 0% BUILT IIN SLOPE. CHANNELS HAVE REBAR CLIPS STANDARD TO SECURE TRENCH IN ITS FINAL LOCATION. CHANNELS ARE PROVIDED WITH STANDARD DGC GRATES THAT LOCK DOWN WITH LOCKDOWN BARS TO THE CHANNEL AND IS NOT INTENDED FOR DYNAMIC TRAFFIC LOADINGS. PROVIDE WITH ZURN HEEL-PROOF POLYETHYLENE GRATE CLASS A. REFER TO ARCHITECTURAL PLANS FOR LENGTH AND PLACEMENT. UNIT IS TO BE PROVIDED WITH END CAPS AS REQUIRED WITH A SINGLE 4" NO-HUB BOTTOM OUTLET.

GENERAL NOTES (APPLICABLE TO ALL DRAWINGS):

1. EACH CONTRACTOR, SUPPLIER AND OR MANUFACTURER SHALL REFER TO ALL DOCUMENTS PERTAINING TO THIS PROJECT AND COORDINATE ACCORDINGLY SO AS TO ENSURE ADEQUACY OF FIT, COMPLIANCE WITH SPECIFICATIONS, PROPER VOLTAGE AND CURRENT CHARACTERISTICS AND AVOID CONFLICT WITH ANY OTHER BUILDINGS SYSTEMS. VERIFY SAME WITH SHOP DRAWINGS.
2. ALL OFFSETS, TURNS, FITTINGS, TRIM, DETAIL, ETC., MAY NOT BE INDICATED, BUT SHALL BE PROVIDED AS REQUIRED. ADDITIONAL ALLOWANCES SHALL BE INCLUDED FOR SAME AT EACH PROPOSERS' DISCRETION.
3. INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC., IN A LOCATION OR IN A MANNER WHICH WILL ALLOW FREEZING AND/OR THE COLLECTION OF CONDENSATION THEREON.
4. OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS (CITY, COUNTY, LOCAL, STATE, FEDERAL, MUNICIPALITY, UTILITY COMPANY, OSHA, ETC.).
5. ALL SYSTEMS, EQUIPMENT AND MATERIALS ARE TO BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER. WORK NOT DONE SO SHALL BE REMOVED AND REINSTALLED SATISFACTORILY.
6. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
7. DO NOT SCALE FROM DRAWINGS, PRINTING DISTORTS SCALE. WORK SHALL BE LAID OUT FROM DIMENSIONED DRAWINGS, OR DIMENSIONS SUPPLIED TO THE CONTRACTOR.
8. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR HIS WORK. ALL CUTTING AND PATCHING SHALL MATCH EXISTING ADJACENT SURFACES AND BE IN ACCORD WITH OWNER STANDARDS FOR SUCH WORK.
9. TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCT WORK ELBOWS. TURNING VANES NOT REQUIRED FOR KITCHEN EXHAUSTS. REFER TO SPECIFICATION SECTION 15810 FOR MORE DETAIL.
10. THESE DRAWINGS ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE, HOWEVER LOCATIONS, DEPTHS, ELEVATIONS AND SIZES WERE TAKEN FROM DIFFERENT SOURCES AND ARE SUBJECT TO DEVIATION. THE CONTRACTOR SHALL ASSUME SOME DEVIATIONS AND INCLUDE OFFSETS, ADDITIONAL PIPING, ETC AT THE TIME OF BID.
11. WHERE PENETRATING ROOFING MEMBRANE OR OTHER MATERIALS USED FOR WEATHERPROOFING THE BUILDING, MAKE SUCH PENETRATIONS IN A WAY THAT WILL NOT VOID OR DIMINISH THE ROOFING WARRANTY OR INTEGRITY IN ANY WAY. COORDINATE ALL SUCH PENETRATIONS WITH THE ROOFING INSTALLER.
12. ADVISE THE ENGINEERS OF ANY CONFLICTS, ERRORS, OMISSIONS, ETC. AT LEAST TEN DAYS PRIOR TO BID DATE, TO ALLOW CLARIFICATION BY WRITTEN ADDENDUM.
13. DEVIATION FROM SPECIFICATIONS OR PLANS REQUIRES PRIOR WRITTEN APPROVAL FROM THE ENGINEERS AND MUST BE SUBMITTED IN WRITING NO LATER THAN TEN DAYS PRIOR TO THE BID DATE.
14. COORDINATE THE LOCATION OF DRAINS, ELECTRICAL OUTLETS, ETC. WITH ALL MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION. WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE RESPONSIBLE CONTRACTOR(S).
15. THE PURPOSE AND INTENT OF ALL THE DOCUMENTS PERTAINING TO THIS PROJECT IS TO PROVIDE A COMPLETE, FUNCTIONAL, SAFE, NEW FACILITY. ANYTHING LESS SHALL BE UNACCEPTABLE.
16. ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
17. INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORD WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION.
18. ALL SUPPORTS FOR EQUIPMENT, DEVICES OR FIXTURES SHALL BE UNIQUE, FROM THE BUILDING STRUCTURE. DO NOT SUPPORT WORK FROM OTHER TRADES, EQUIPMENT OR SUPPORTS WITHOUT WRITTEN PERMISSION FROM THE ENGINEER AND CONSENT OF THE OTHER TRADE, IN WRITING. DO NOT SUPPORT EQUIPMENT FROM WALLS OR PARTITIONS
19. DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT PRIME SPECIFIED SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
20. THE GENERAL CONTRACTOR FOR THIS CONSTRUCTION IS RESPONSIBLE FOR THE COORDINATION, APPEARANCE, SCHEDULING AND TIMELINESS OF THE WORK OF ALL TRADES, CONTRACTORS, SUPPLIERS, INSTALLERS, ETC. EACH TRADE SHALL COORDINATE THEIR WORK WITH OTHER TRADES AND THE GENERAL CONTRACTOR.
21. VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT.
22. ENSURE PROPER COORDINATION BETWEEN ALL TRADES SUCH THAT CONDUITS, PIPING, DUCTWORK, ETC. DO NOT BLOCK ACCESS TO VALVES, EQUIPMENT, DUCT ACCESS DOORS, ETC. ITEMS THAT HAVE BEEN INSTALLED WHERE ACCESS IS COMPROMISED SHALL BE RELOCATED AT THE CONTRACTOR'S EXPENSE.
23. EXISTING CONDUIT AND WIRING: EXISTING CONDUIT AND WIRING MAY BE SUPPORTED BY EXISTING DUCT AND PIPING HANGERS. COORDINATE WORK WITH ELECTRICAL AND GENERAL CONTRACTOR TO RE-SUPPORT WIRING BEFORE CUTTING HANGERS. CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY NOT COORDINATING WORK.
24. PATCH HOLES IN WALLS, FLOORS, CEILINGS, ROOFS, ETC. TO MATCH ADJACENT SURFACES AS A RESULT OF REMOVAL OF MECHANICAL SYSTEMS. PATCHING SHALL BE PERFORMED BY QUALIFIED TRADESMAN.
25. WHERE THERMOSTATS AND OTHER WALL-MOUNTED CONTROL DEVICES ARE REMOVED AND NOT REPLACED PATCH WALL TO MATCH EXISTING CONDITIONS.
26. IN AREAS WITH WORK ABOVE AN EXISTING CEILING (LAY-IN, DRYWALL, SPLINE, ETC.), THE CONTRACTOR SHALL CUT AND PATCH THE CEILING AND GRID AS REQUIRED TO PERFORM THE WORK. ANY EXISTING LAY-IN CEILING OR GRID DAMAGED OR BROKEN SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. REFER TO ARCHITECTURAL DRAWINGS FOR AREAS WHERE NEW CEILINGS ARE TO BE INSTALLED.
27. INACCESSIBLE PIPING BURIED IN EXISTING WALLS REMAINING AND CONCRETE SLABS MAY BE ABANDONED IN PLACE. CAP ABANDONED PIPING AND DUCTWORK.
28. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL DUCT FIT ISSUES. THERE WILL BE NO CHANGE-ORDERS FOR DUCT SIZE CHANGES DURING CONSTRUCTION. FIELD VERIFY ALL ROUTING PRIOR TO START OF DUCT FABRICATION.
29. EQUIVALENT DUCT SIZES ARE ALLOWED. DUCTWORK MAY BE FLATTENED AS REQUIRED TO ALLOW FOR FIT. DUCT MAY NOT BE FLATTENED LESS THEN (1) IN HEIGHT TO (4) IN WIDTH.
30. PRIOR TO START OF DEMOLITION WORK THE EXISTING AIRFLOWS FOR ALL MECHANICAL CEILING DEVICES AND AIR CONTROL BOXES SHALL BE RECORDED AND PROVIDED TO ENGINEER FOR EVALUATION.

Notice

The Architect/Engineer does not define the scope of individual trades, subcontractors, material suppliers, or vendors. Any sheet numbering system used which identifies disciplines is solely for the Architect/Engineer's convenience, and is not intended to define a subcontractor's scope of work. Information regarding individual trades, subcontractors, material suppliers, and vendors may be detailed, described and indicated at different locations throughout these documents. No consideration will be given to requests for change orders for failure to obtain and review the complete set of drawings and specifications when preparing bids, prices, and quotations.

CMTA
A LEGENCE Company
10411 Meeting Street,
Prospect, Kentucky 40059
502 326.3085 f 502 326.2691
www.cmta.com

TowerPinkster
ARCHITECTURE • ENGINEERING • INTERIORS
630 Walnut St.
Jeffersonville, IN 47130
812.282.9554 PHONE
242 East Kalamazoo Avenue, Suite 100
Kalamazoo, Michigan 49007-5828
269.343.6133 PHONE 269.343.6633 FAX
TOWERPINKSTER.COM

JESS EDWARDS FARBER
REGISTERED
NO. 11400523
STATE OF INDIANA
PROFESSIONAL ENGINEER

ISSUED FOR | DATE

Revisions
Addendum 2 - 03.21.23

PROJECT TITLE
HENRYVILLE HIGH SCHOOL
2023 HENRYVILLE FLOORING REPLACEMENT PHASE 2 & CAFETERIA EXPANSION

OWNER
BORDEN - HENRYVILLE SCHOOL CORPORATION
213 FERGUSON STREET
HENRYVILLE, INDIANA 47126

Drawn CMTA
Checked By CMTA

SHEET TITLE
MECHANICAL SCHEDULES, GENERAL NOTES AND LEGENDS

DATE
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